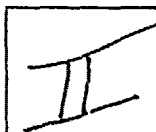


PHOTOGRAPH THIS SHEET

ADA087813

DTIC ACCESSION NUMBER



LEVEL



ATTENTION:  
Camera Operator  
When Filming attached document  
use Bell & Howell camera ONLY!!!



INVENTORY

Consult with Supervisor for  
further instructions.

USAFETAC/DS-80/053

DOCUMENT IDENTIFICATION

22 July 1970

DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

DISTRIBUTION STATEMENT

|                    |   |
|--------------------|---|
| ACCESSION FOR      |   |
| NTIS               | GRA&I <input checked="" type="checkbox"/> |
| DTIC               | TAB <input type="checkbox"/>              |
| UNANNOUNCED        | <input type="checkbox"/>                  |
| JUSTIFICATION      |   |
|                    |   |
|                    |   |
| BY                 |   |
| DISTRIBUTION /     |   |
| AVAILABILITY CODES |   |
| DIST               | AVAIL AND/OR SPECIAL                      |
| A                  | 23  |

DISTRIBUTION STAMP

DTIC  
ELECTE  
S AUG 14 1980 D  
D

DATE ACCESSIONED

THIS DOCUMENT IS BEST QUALITY PRACTICABLE.  
THE COPY FURNISHED TO DDC CONTAINS A  
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.

80 7 7 052

DATE RECEIVED IN DTIC

PHOTOGRAPH THIS SHEET AND RETURN TO DTIC-DDA-2

DTIC FORM  
OCT 79 70A

DOCUMENT PROCESSING SHEET

ADA087813

USAFETAC/DS-80/051

**DATA PROCESSING DIVISION  
ETAC, USAF  
Air Weather Service (MATS)**

REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

COLORADO SPRINGS COLO/PETERSON FD WBAH#93037  
N 38 49 W 104 42 ELEV 6170 FT KCOS WMO#72466

PARTS A-F  
POR FROM HOURLY OBS SEP 42-MAR 48, JUL 48-DEC 68  
POR FROM DAILY OBS SEP 42-MAR 48, JUL 48-DEC 68

JUL 22 1978

**FEDERAL BUILDING  
ASHEVILLE, N. C.**

"THIS DOCUMENT HAS BEEN APPROVED  
FOR PUBLIC RELEASE AND SALE; ITS DIS-  
TRIBUTION IS UNLIMITED."

## **DISCLAIMER NOTICE**

**THIS DOCUMENT IS BEST QUALITY  
PRACTICABLE. THE COPY FURNISHED  
TO DTIC CONTAINED A SIGNIFICANT  
NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.**

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

| REPORT DOCUMENTATION PAGE   |                       | READ INSTRUCTIONS<br>BEFORE COMPLETING FORM                  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
|---|-----------------------|--|---------|--------------------|----------------------|----------|--------------------|-----------------------|-------------|--------------------|-----------------------|---------------|---------------------|---------------------------|-------------------|----------------------|--------|
| 1. REPORT NUMBER<br>USAFETAC/DS- 80/053   | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER                                |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 4. TITLE (and Subtitle)<br>Revised Uniform Summary of Surface Weather<br>Observations (RUSSWO)-Colorado Springs, Colo.<br>Peterson FD   |                       | 5. TYPE OF REPORT & PERIOD COVERED<br>Final rept.            |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 7. AUTHOR(s)  |                       | 6. PERFORMING ORG. REPORT NUMBER                             |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br>USAFETAC/OL-A<br>Air Force Environmental Technical Appl. Center<br>Scott AFB IL 62225  |                       | 8. CONTRACT OR GRANT NUMBER(s)                               |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 11. CONTROLLING OFFICE NAME AND ADDRESS<br>USAFETAC/CBD<br>Air Weather Service (MAC)<br>Scott AFB IL 62225  |                       | 10. PROGRAM ELEMENT PROJECT, TASK<br>AREA & WORK UNIT NUMBER |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)   |                       | 12. REPORT DATE<br>22 Jul 70                                 |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
|   |                       | 13. NUMBER OF PAGES  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
|   |                       | 15. SECURITY CLASS. of this report<br>UNCLASSIFIED           |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
|   |                       | 15a. DECLASSIFICATION DOWNGRADING<br>SCHEDULE                |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 16. DISTRIBUTION STATEMENT (of this Report)<br>Approved for public release; distribution unlimited.   |                       |  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)  |                       |  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 18. SUPPLEMENTARY NOTES   |                       |  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br><table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>  |                       |  | *RUSSWO | Daily temperatures | Atmospheric pressure | Snowfall | Extreme snow depth | Extreme surface winds | Climatology | Sea-level pressure | Psychrometric summary | Surface Winds | Extreme temperature | Ceiling versus visibility | Relative Humidity | *Climatological data | (over) |
| *RUSSWO   | Daily temperatures    | Atmospheric pressure   |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Snowfall  | Extreme snow depth    | Extreme surface winds  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Climatology   | Sea-level pressure    | Psychrometric summary  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Surface Winds   | Extreme temperature   | Ceiling versus visibility                                    |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Relative Humidity   | *Climatological data  | (over)   |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br><p>This report is a six-part statistical summary of surface weather observations for Colorado Springs, Colo/Peterson FD</p> <p>It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over)</p> |                       |  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |

DD FORM 1 JAN 73 1473

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables  
\*Colorado            \*\*Peterson FD, Colorado Springs, Colorado
20. and dew point temperatures and relative humidity); and (F) Pressure  
Summary (means, standard, deviations, and observation counts of  
station pressure and sea-level pressure). Data in this report are  
presented in tabular form, in most cases in percentage frequency of  
occurrence or cumulative percentage frequency of occurring tables.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

5

REVISED

UNITED STATES SUMMARY

OF

SURFACE WEATHER OBSERVATIONS

| STATION | STATION NAME                     | COUNTRY | STATE | COUNTY | STATION ELEVATION (FT.) | CALL SIGN |
|---------|----------------------------------|---------|-------|--------|-------------------------|-----------|
| 93037   | COLUMBIA SPRINGS COLLEGE/STATION | USA     | MO    | CO     | 617                     | 93037     |

PERIOD OF RECORD

| PERIOD OF RECORD | DATE              |
|------------------|-------------------|
| SEP 42-44        | 45, JUL 45-DEC 47 |
| SEP 42-44        | 45, JUL 45-DEC 47 |

SUMMARY

PART A WEATHER CONDITIONS  
ATMOSPHERIC PHENOMENA

PART B PRECIPITATION  
SNOWFALL  
SNOW DEPTH

PART C SURFACE WINDS

PART D CLOUDS VERSUS VISIBILITY  
SKYCOVER

PART E DAILY MAX, MIN, AND MEAN TEMPERATURES  
EXTREME MAX AND MIN TEMPERATURES  
PSYCHROMETRIC DRY VS WET BULB  
HEATS & STD DEV- DRY BULB, WET BULB, AND DEW POINT  
RELATIVE HUMIDITY

PART F STATION PRESSURE  
SEA LEVEL PRESSURE

0-24-6 (01 1)

FORM  
OCL 66

SPECIAL SUPPLEMENT, USAF EIAE

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

# Revised UNIFORM SUMMARY of SURFACE WEATHER OBSERVATIONS

## DESCRIPTION OF SUMMARIES:

Preceding each section is a brief description of the data comprising each part of the revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Services and some foreign stations using similar reporting practices.

HOURLY OBSERVATIONS are defined as those record or record-special observations recorded at scheduled hourly intervals.

DAILY OBSERVATIONS are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

STANDARD 3-HOUR GROUPS All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 hours local standard time.

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_  
FEBRUARY \_\_\_\_\_  
MARCH \_\_\_\_\_

APRIL \_\_\_\_\_  
MAY \_\_\_\_\_  
JUNE \_\_\_\_\_

JULY \_\_\_\_\_  
AUGUST \_\_\_\_\_  
SEPTEMBER \_\_\_\_\_

OCTOBER \_\_\_\_\_  
NOVEMBER \_\_\_\_\_  
DECEMBER \_\_\_\_\_

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

A

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

|                       |                                   |          |           |                   |           |            |
|-----------------------|-----------------------------------|----------|-----------|-------------------|-----------|------------|
| STATION NO ON SUMMARY | STATION NAME                      | LATITUDE | LONGITUDE | STATION ELEV (FT) | CALL SIGN | WMO NUMBER |
| 93037                 | COLORADO SPRNGS COLO/PETERSON FLD | N 38 49  | W 104 42  | 6170              | KCOS      | 72466      |

### STATION LOCATION AND INSTRUMENTATION HISTORY

| NUMBER OF LOCATIONS | GEOGRAPHICAL LOCATION & NAME | TYPE OF STATION | AT THIS LOCATION |        | LATITUDE  | LONGITUDE | ELEVATION ABOVE MSL |                | CBS PER DAY |
|---------------------|------------------------------|-----------------|------------------|--------|-----------|-----------|---------------------|----------------|-------------|
|                     |                              |                 | FROM             | TO     |           |           | STATION (FT)        | TYPE BAROMETER |             |
| 1                   | Peterson Field, Colorado     | AAF             | Sep 42           | Mar 48 | N 38 49   | W 104 42  | 6170                | Mercurial      | 24          |
| 2                   | No Change                    | W               | Jul 48           | Dec 64 | No Change | No Change | No Change           | No Change      | 24          |
| 2                   | No Change                    | W               | Jan 65           | Dec 68 | No Change | No Change | No Change           | No Change      | 8           |

| NUMBER OF LOCATION | DATE OF CHANGE        | SURFACE WIND EQUIPMENT INFORMATION |                     |                  |                 | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |
|--------------------|-----------------------|------------------------------------|---------------------|------------------|-----------------|---|
|                    |                       | LOCATION                           | TYPE OF TRANSMITTER | TYPE OF RECORDER | HT ABOVE GROUND |   |
| 1                  | Sep 42 to Mar 48      | Not Available                      | Anemometer          | N/A              | N/A             |   |
| 2                  | Jul 48 to 14 Sep 54   | Located on the Tower roof.         | Selsyn              | None             | 78 Ft           |   |
| 2                  | 15 Sep 54 to 4 May 56 | No Change                          | No Change           | None             | 67 ft           |   |
| 2                  | 5 May 56 to 9 Feb 58  | No Change                          | No Change           | None             | 76 Ft           |   |

| STATION NO ON SUMMARY | STATION NAME                       | LATITUDE | LONGITUDE | STATION ELEV (FT) | CALL SIGN | WMO NUMBER |
|-----------------------|------------------------------------|----------|-----------|-------------------|-----------|------------|
| 93037                 | COLORADO SPRINGS COLO/PETERSON FLD | N 38 49  | W 104 42  | 6170              | SCCS      | 72155      |

## STATION LOCATION AND INSTRUMENTATION HISTORY

| NUMBER OF LOCATION | GEOGRAPHICAL LOCATION & NAME | TYPE OF STATION | AT THIS LOCATION |        | LATITUDE  | LONGITUDE | ELEVATION ABOVE MSL |               | CBS PER DAY |
|--------------------|------------------------------|-----------------|------------------|--------|-----------|-----------|---------------------|---------------|-------------|
|                    |                              |                 | FROM             | TO     |           |           | STATION (FT)        | TYPE BARMETER |             |
| 1                  | Peterson Field, Colorado     | AAF             | Sep 42           | Mar 48 | N 38 49   | W 104 42  | 6170                | Mercurial     | 24          |
| 2                  | No Change                    | W               | Jul 48           | Dec 54 | No Change | No Change | No Change           | No Change     | 24          |
| 2                  | No Change                    | W               | Jan 65           | Dec 68 | No Change | No Change | No Change           | No Change     | 8           |

| NUMBER OF LOCATION | DATE OF CHANGE        | SURFACE WIND EQUIPMENT INFORMATION |                     |                  |                 | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |
|--------------------|-----------------------|------------------------------------|---------------------|------------------|-----------------|---|
|                    |                       | LOCATION                           | TYPE OF TRANSMITTER | TYPE OF RECORDER | HT ABOVE GROUND |   |
| 1                  | Sep 42 to Mar 48      | Not Available                      | Anemometer          | N/A              | N/A             |   |
| 2                  | Jul 48 to 14 Sep 54   | Located on the Tower roof.         | Selsyn              | None             | 78 Ft           |   |
| 2                  | 15 Sep 54 to 4 May 56 | No Change                          | No Change           | None             | 67 Ft           |   |
| 2                  | 5 May 56 to 19 Feb 58 | No Change                          | No Change           | None             | 76 Ft           |   |

| NUMBER<br>OF<br>LOCATION | DATE<br>OF<br>CHANGE      | SURFACE WIND EQUIPMENT INFORMATION         |                        |                     |                    | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |
|--------------------------|---------------------------|--|------------------------|---------------------|--------------------|---|
|                          |                           | LOCATION                                   | TYPE OF<br>TRANSMITTER | TYPE OF<br>RECORDER | HT ABOVE<br>GROUND |   |
| 3                        | 20 Feb 58<br>to<br>Dec 68 | Located in center of Airport Com-<br>plex. | FL20-C                 | None                | 22 Ft              |   |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FO  
STATION NAME

43-68  
YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISIB | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|----------------------------|-----|-------------------------|-----------------|------------------------|-----------------------------------|-------------------------|
| JAN    | 00-02             |                    |                           | .5                                | 11.9                    |      | 12.1                       | 3.5 | .4                      | .6              |                        | 4.4                               | 2158                    |
|        | 03-05             |                    |                           | .2                                | 11.0                    |      | 11.1                       | 3.9 | .2                      | .6              |                        | 4.7                               | 2170                    |
|        | 06-08             |                    |                           | .1                                | 10.4                    |      | 10.4                       | 4.6 | 1.4                     | .5              | .0                     | 6.5                               | 2164                    |
|        | 09-11             |                    |                           | .0                                | 10.3                    |      | 10.3                       | 4.0 | .7                      | .3              | .2                     | 5.1                               | 2165                    |
|        | 12-14             |                    | .1                        |                                   | 9.3                     |      | 9.3                        | 3.2 | .5                      | .3              | .3                     | 4.1                               | 2169                    |
|        | 15-17             |                    | .1                        |                                   | 9.1                     |      | 9.3                        | 2.6 | .4                      | .5              | .0                     | 3.6                               | 2169                    |
|        | 18-20             |                    |                           | .0                                | 11.4                    |      | 11.4                       | 2.4 | .6                      | .7              |                        | 3.7                               | 2169                    |
|        | 21-23             |                    |                           | .0                                | 12.3                    |      | 12.4                       | 3.6 | .4                      | .6              | .1                     | 4.7                               | 2170                    |
|        |                   |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                   |                         |
|        |                   |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                   |                         |
|        |                   |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                   |                         |
|        |                   |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                   |                         |
| TOTALS |                   |                    | .0                        | .1                                | 10.7                    |      | 10.8                       | 3.3 | .6                      | .3              | .1                     | 4.6                               | 17394                   |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FO 43-68

STATION

STATION NAME

YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS. |
|--------|----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| FEB    | 00-02          |                    | .2                        | .7                                | 17.7                    |      | 13.3                       | 0.0 | .3                      | .4              | .1                     | 6.7                                | 1963                   |
|        | 03-05          |                    | .2                        | .7                                | 11.7                    |      | 12.5                       | 6.1 | .1                      | .4              | .1                     | 6.7                                | 1966                   |
|        | 06-08          |                    |                           | 1.0                               | 12.1                    |      | 12.8                       | 6.5 | 1.1                     | .5              |                        | 8.0                                | 1979                   |
|        | 09-11          |                    | .1                        | .4                                | 11.1                    |      | 11.4                       | 4.7 | .4                      | .9              | .1                     | 5.8                                | 1977                   |
|        | 12-14          |                    | .2                        | .1                                | 10.4                    |      | 10.6                       | 3.2 | .1                      | .7              | .1                     | 4.3                                | 1975                   |
|        | 15-17          |                    | .4                        |                                   | 10.6                    |      | 10.9                       | 3.1 | .3                      | .9              | .2                     | 4.4                                | 1978                   |
|        | 18-20          |                    | .2                        | .1                                | 12.0                    |      | 12.3                       | 3.0 | .4                      | .6              | .1                     | 4.3                                | 1961                   |
|        | 21-23          |                    | .2                        | .6                                | 12.9                    |      | 13.5                       | 5.7 | .2                      | .4              | .1                     | 6.3                                | 1955                   |
|        |                |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                   |                         |      |                            |     |                         |                 |                        |                                    |                        |
| TOTALS |                |                    | .2                        | .4                                | 11.7                    |      | 12.1                       | 4.0 | .3                      | .6              | .1                     | 5.8                                | 15763                  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FD 43-68

STATION

STATION NAME

YEARS

MAR

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| MAR    | 00-02          |                    | .5                        | .4                                | 13.6                    |      | 14.5                        | 7.0 |                         | .5              |                        | 7.4                                | 2146                    |
|        | 03-05          |                    | .4                        | .6                                | 14.1                    |      | 14.7                        | 7.3 | .0                      | .6              | .1                     | 8.0                                | 2154                    |
|        | 06-08          |                    | .2                        | .4                                | 12.8                    |      | 13.4                        | 7.5 | 1.0                     | .6              | .2                     | 9.3                                | 2170                    |
|        | 09-11          |                    | .6                        | .2                                | 11.2                    |      | 11.7                        | 4.1 | .2                      | .7              | .6                     | 5.5                                | 2170                    |
|        | 12-14          |                    | .9                        | .1                                | 10.2                    |      | 11.1                        | 3.2 |                         | .5              | .7                     | 4.5                                | 2167                    |
|        | 15-17          | .2                 | 1.2                       | .0                                | 11.1                    |      | 12.2                        | 2.4 | .1                      | .7              | .9                     | 4.0                                | 2170                    |
|        | 18-20          |                    | .9                        | .1                                | 11.5                    |      | 12.4                        | 2.8 | .3                      | .7              | .7                     | 4.4                                | 2145                    |
|        | 21-23          |                    | 1.1                       | .2                                | 12.9                    |      | 13.7                        | 5.0 | .1                      | .5              | .2                     | 5.8                                | 2147                    |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
| TOTALS |                | .0                 | .5                        | .3                                | 12.2                    |      | 13.0                        | 4.9 | .2                      | .6              | .4                     | 4.1                                | 17269                   |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

## WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FD 43-47,49-50

STATION

STATION NAME

YEARS

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| APR    | 00-02          |                    | 3,4                       | ,2                                | 9,7                     | ,0   | 13,2                        | 5,3 |                         | ,3              | ,1                     | 5,8                                | 7009                  |
|        | 03-05          | ,0                 | 3,8                       | ,2                                | 8,4                     |      | 12,3                        | 6,7 | ,1                      | ,3              |                        | 7,4                                | 2007                  |
|        | 06-08          | ,0                 | 3,5                       | ,1                                | 8,9                     |      | 12,1                        | 6,6 | ,0                      | ,3              |                        | 7,2                                | 2008                  |
|        | 09-11          | ,2                 | 2,3                       |                                   | 8,2                     | ,0   | 10,2                        | 2,9 | ,0                      | ,3              | ,0                     | 3,4                                | 2010                  |
|        | 12-14          | 1,3                | 4,6                       | ,0                                | 7,2                     | ,2   | 11,6                        | 1,8 |                         | ,1              | ,4                     | 2,3                                | 2010                  |
|        | 15-17          | ,9                 | 5,7                       | ,0                                | 7,7                     | ,0   | 12,7                        | 2,4 |                         | ,0              | ,9                     | 3,3                                | 2003                  |
|        | 18-20          | ,4                 | 4,8                       | ,0                                | 8,5                     |      | 12,7                        | 2,4 |                         | ,2              | ,7                     | 3,4                                | 2007                  |
|        | 21-23          | ,1                 | 3,2                       | ,2                                | 10,3                    |      | 13,1                        | 3,7 | ,0                      | ,2              | ,5                     | 4,4                                | 2007                  |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
| TOTALS |                | ,4                 | 3,9                       | ,1                                | 8,6                     | ,0   | 12,3                        | 4,0 | ,0                      | ,3              | ,3                     | 4,7                                | 16008                 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FO 43-47,49-68 MAY  
STATION STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| MAY    | 00-02           | .3                 | 9.0                       |                                   | 2.9                     | .1   | 11.4                        | 4.7 | .1                      |                 |                        | 4.7                                | 2076                   |
|        | 03-05           | .1                 | 8.3                       |                                   | 3.1                     |      | 11.0                        | 7.6 | .1                      |                 | .2                     | 7.8                                | 2076                   |
|        | 06-08           | .1                 | 7.9                       |                                   | 2.3                     |      | 9.8                         | 7.4 | .1                      |                 | .1                     | 7.6                                | 2075                   |
|        | 09-11           | .5                 | 7.4                       | .0                                | 2.0                     | .0   | 8.9                         | 3.8 |                         |                 | .1                     | 3.9                                | 2077                   |
|        | 12-14           | 4.4                | 10.4                      |                                   | 1.7                     | .1   | 11.7                        | 1.8 |                         |                 | .2                     | 2.1                                | 2077                   |
|        | 15-17           | 5.2                | 13.1                      |                                   | 1.5                     | .2   | 14.4                        | 1.2 | .1                      |                 | .2                     | 1.5                                | 2076                   |
|        | 18-20           | 2.8                | 11.4                      |                                   | 1.6                     | .0   | 12.9                        | 1.7 | .0                      |                 | .3                     | 2.0                                | 2077                   |
|        | 21-23           | 1.3                | 10.8                      |                                   | 2.7                     | .1   | 13.0                        | 2.4 |                         |                 | .1                     | 2.5                                | 2075                   |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
| TOTALS |                 | 1.9                | 9.8                       | .0                                | 2.3                     | .1   | 11.6                        | 3.8 | .1                      |                 | .2                     | 4.0                                | 16609                  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# WEATHER CONDITIONS

93037 COLORADO SPRINGS GOLD-PETERSON FO 43-47,49-68

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| JUN    | 00-02           | 1.0                | 5.6                       |                                   | .3                      |      | 5.9                         | 2.7 |                         |                 | .1                     | 2.9                                | 2010                  |
|        | 03-05           | .1                 | 5.4                       |                                   | .1                      |      | 5.5                         | 4.7 | .0                      |                 | .0                     | 4.8                                | 2009                  |
|        | 06-08           | .2                 | 4.3                       |                                   | .0                      | .0   | 4.4                         | 3.9 |                         |                 |                        | 3.9                                | 2008                  |
|        | 09-11           | .8                 | 3.5                       |                                   |                         |      | 3.5                         | 1.2 | .0                      |                 |                        | 1.3                                | 2009                  |
|        | 12-14           | 7.0                | 9.7                       |                                   |                         | .2   | 9.7                         | .4  | .1                      |                 | .0                     | .6                                 | 2010                  |
|        | 15-17           | 7.6                | 10.7                      |                                   |                         | .2   | 10.7                        | .2  | .0                      |                 | .1                     | .4                                 | 2009                  |
|        | 18-20           | 4.3                | 8.1                       |                                   | .1                      |      | 8.1                         | .4  |                         |                 | .5                     | .9                                 | 2010                  |
|        | 21-23           | 2.2                | 6.6                       |                                   | .3                      |      | 6.8                         | .8  |                         |                 | .2                     | 1.0                                | 2005                  |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                       |
| TOTALS |                 | 2.9                | 6.7                       |                                   | .1                      | .1   | 6.8                         | 1.8 | .0                      |                 | .1                     | 2.0                                | 16070                 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FO 43-68

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| JUL    | 00-02          | .9                 | 3.6                       |                                  |                         |      | 3.6                         | .8  |                         |                 | .1                     | .9                                 | 2167                  |
|        | 03-05          | .1                 | 2.4                       |                                  |                         |      | 2.4                         | 2.2 | .0                      |                 | .1                     | 2.4                                | 2166                  |
|        | 06-08          |                    | 1.3                       |                                  |                         |      | 1.3                         | 1.1 | .0                      |                 | .1                     | 1.3                                | 2167                  |
|        | 09-11          | .7                 | 1.7                       |                                  |                         |      | 1.7                         | .2  |                         |                 | .1                     | .4                                 | 2170                  |
|        | 12-14          | 11.5               | 11.1                      |                                  |                         | .1   | 11.1                        |     |                         |                 | .1                     | .1                                 | 2170                  |
|        | 15-17          | 14.1               | 17.6                      |                                  |                         | .3   | 17.6                        | .2  |                         |                 | .0                     | .3                                 | 2166                  |
|        | 18-20          | 9.6                | 14.2                      |                                  |                         | .0   | 14.2                        | .2  |                         |                 | .1                     | .3                                 | 2169                  |
|        | 21-23          | 2.8                | 8.0                       |                                  |                         |      | 8.0                         | .2  |                         |                 | .1                     | .4                                 | 2167                  |
|        |                |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |
|        |                |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |
| TOTALS |                | 5.0                | 7.3                       |                                  |                         | .1   | 7.3                         | .6  | .0                      |                 | .1                     | .7                                 | 17350                 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FD 43-00

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS.<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|-------------------------------------|------------------------|
| AUG    | 00-02           | .9                 | 5.0                       |                                   |                         |      | 5.0                         | 2.7 | .1                      |                 |                        | 2.8                                 | 2169                   |
|        | 03-05           | .0                 | 2.4                       |                                   |                         |      | 2.4                         | 4.2 | .0                      |                 |                        | 4.2                                 | 2168                   |
|        | 06-08           | .1                 | 2.0                       |                                   |                         |      | 2.0                         | 3.0 | .1                      |                 |                        | 3.1                                 | 2170                   |
|        | 09-11           | .5                 | 2.3                       |                                   |                         |      | 2.3                         | 1.2 |                         |                 |                        | 1.2                                 | 2170                   |
|        | 12              | 7.4                | 10.3                      |                                   |                         | .0   | 10.3                        | .6  | .0                      |                 |                        | .6                                  | 2170                   |
|        | 1               | .7                 | 11.0                      |                                   |                         |      | 11.7                        | .6  |                         |                 | .0                     | .6                                  | 2168                   |
|        | 18-20           | 7.3                | 14.6                      |                                   |                         |      | 14.6                        | 1.0 |                         |                 | .1                     | 1.1                                 | 2168                   |
|        | 21-23           | 2.0                | 8.2                       |                                   |                         | .0   | 8.2                         | 1.3 |                         |                 | .1                     | 1.6                                 | 2169                   |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                     |                        |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                     |                        |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                     |                        |
|        |                 |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                     |                        |
| TOTALS |                 | 3.6                | 7.6                       |                                   |                         | .0   | 7.6                         | 1.8 | .0                      |                 | .0                     | 1.7                                 | 17352                  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FD 42-68 SEP  
STATION STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
|--------|----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| SEP    | 00-02          | .3                 | 4.6                       |                                   | .6                      |      | 5.2                         | 3.6 |                         |                 | .1                     | 3.7                                | 2186                   |
|        | 03-05          | .2                 | 5.1                       |                                   | .5                      |      | 5.4                         | 5.1 | .2                      |                 | .0                     | 3.4                                | 2190                   |
|        | 06-08          | .3                 | 4.3                       |                                   | .3                      |      | 4.8                         | 5.3 | .6                      |                 | .1                     | 5.7                                | 2187                   |
|        | 09-11          | .3                 | 3.8                       |                                   | .7                      |      | 4.4                         | 2.9 | .2                      |                 |                        | 3.0                                | 2169                   |
|        | 12-14          | 2.0                | 4.8                       |                                   | .5                      | .0   | 5.3                         | 1.7 | .0                      |                 | .1                     | 1.9                                | 2168                   |
|        | 15-17          | 2.3                | 5.9                       | .0                                | .4                      |      | 5.3                         | 1.1 | .1                      |                 | .0                     | 1.3                                | 2187                   |
|        | 18-20          | 1.3                | 5.3                       | .0                                | .7                      | .1   | 6.0                         | 1.0 | .1                      |                 | .3                     | 1.4                                | 2186                   |
|        | 21-23          | 1.2                | 3.9                       |                                   | 1.0                     |      | 4.7                         | 2.1 |                         |                 | .2                     | 2.3                                | 2188                   |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                        |
| TOTALS |                | 1.0                | 3.6                       | .0                                | .6                      | .0   | 5.1                         | 2.9 | .2                      |                 | .1                     | 3.1                                | 17503                  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FO 42-68

JCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
|--------|----------------|--------------------|---------------------------|----------------------------------|-------------------------|------|----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| JCT    | 00-02          | .1                 | 3.4                       |                                  | 2.3                     |      | 5.5                        | 3.6 | .3                      |                 |                        | 3.9                                | 2250                   |
|        | 03-05          | .0                 | 3.5                       | .0                               | 2.6                     |      | 6.0                        | 4.1 | .2                      |                 |                        | 4.2                                | 2260                   |
|        | 06-08          |                    | 3.1                       | .0                               | 2.9                     |      | 5.8                        | 5.8 | .7                      | .0              |                        | 6.6                                | 2258                   |
|        | 09-11          |                    | 2.7                       |                                  | 2.2                     |      | 4.8                        | 3.6 | .3                      |                 |                        | 2.9                                | 2262                   |
|        | 12-14          | .2                 | 3.2                       |                                  | 1.9                     | .0   | 5.0                        | 1.8 | .5                      |                 |                        | 2.3                                | 2267                   |
|        | 15-17          | .4                 | 4.4                       |                                  | 1.5                     |      | 5.8                        | 1.8 | .4                      |                 | .1                     | 2.3                                | 2260                   |
|        | 18-20          | .2                 | 4.1                       |                                  | 2.4                     |      | 6.4                        | 1.8 | .1                      |                 | .2                     | 2.1                                | 2262                   |
|        | 21-23          | .3                 | 4.0                       |                                  | 2.5                     |      | 6.1                        | 2.2 | .2                      |                 | .2                     | 2.6                                | 2262                   |
|        |                |                    |                           |                                  |                         |      |                            |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                  |                         |      |                            |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                  |                         |      |                            |     |                         |                 |                        |                                    |                        |
|        |                |                    |                           |                                  |                         |      |                            |     |                         |                 |                        |                                    |                        |
| TOTALS |                | .2                 | 3.5                       | .0                               | 2.3                     | .0   | 5.7                        | 3.1 | .3                      | .0              | .1                     | 3.5                                | 18056                  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# WEATHER CONDITIONS

93037 COLORADO SPRINGS GOLD-PETERSON FD 42-68 NOV  
STATION STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| NOV    | 00-02             |                    | .6                        | .6                                | 8.0                     |      | 8.6                         | 3.4 | .1                      | .7              |                        | 4.2                                | 2190                    |
|        | 03-05             |                    | .3                        | .5                                | 7.9                     |      | 8.4                         | 4.3 | .0                      | .5              |                        | 4.3                                | 2190                    |
|        | 06-08             |                    | .4                        | .5                                | 7.4                     |      | 8.0                         | 3.9 | 1.4                     | .8              |                        | 6.1                                | 2190                    |
|        | 09-11             |                    | .5                        | .1                                | 8.3                     |      | 8.7                         | 3.5 | .2                      | .7              | .1                     | 4.0                                | 2190                    |
|        | 12-14             |                    | .5                        |                                   | 6.8                     |      | 7.0                         | 1.8 |                         | .8              | .1                     | 2.7                                | 2190                    |
|        | 15-17             |                    | .4                        | .0                                | 6.5                     |      | 6.9                         | 2.1 | .4                      | .4              |                        | 2.8                                | 2188                    |
|        | 18-20             |                    | .5                        | .3                                | 7.4                     |      | 7.8                         | 2.0 | .3                      | .4              | .0                     | 2.8                                | 2187                    |
|        | 21-23             |                    | .7                        | .6                                | 7.4                     |      | 8.1                         | 2.6 | .5                      | .4              |                        | 3.3                                | 2188                    |
|        |                   |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
| TOTALS |                   |                    | .3                        | .3                                | 7.5                     |      | 7.9                         | 2.9 | .4                      | .6              | .0                     | 3.9                                | 17513                   |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# WEATHER CONDITIONS

93037 COLORADO SPRINGS COLO-PETERSON FD 42-68  
STATION STATION NAME YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| DEC    | 00-02          |                    | .1                        | .1                                | 7.4                     |      | 7.6                         | 3.8 | .4                      | .5              | .0                     | 4.7                                | 2262                    |
|        | 03-05          |                    | .0                        | .3                                | 6.3                     |      | 6.6                         | 3.0 |                         | .4              |                        | 4.3                                | 2262                    |
|        | 06-08          |                    | .2                        | .1                                | 7.1                     |      | 7.4                         | 3.9 | 2.0                     | .3              |                        | 6.2                                | 2265                    |
|        | 09-11          |                    | .0                        | .1                                | 7.6                     |      | 7.7                         | 3.4 | .8                      | .1              |                        | 4.2                                | 2263                    |
|        | 12-14          |                    | .0                        |                                   | 6.3                     |      | 6.4                         | 2.5 | .4                      | .1              | .0                     | 3.1                                | 2257                    |
|        | 15-17          |                    | .1                        |                                   | 6.1                     |      | 6.1                         | 2.0 | .8                      | .2              | .1                     | 3.0                                | 2263                    |
|        | 18-20          |                    | .2                        | .1                                | 6.7                     |      | 6.8                         | 2.3 | .7                      | .2              | .0                     | 3.1                                | 2263                    |
|        | 21-23          |                    | .1                        | .1                                | 7.8                     |      | 7.8                         | 3.6 | .8                      | .3              | .0                     | 4.6                                | 2260                    |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |     |                         |                 |                        |                                    |                         |
| TOTALS |                |                    | .1                        | .1                                | 6.9                     |      | 7.1                         | 3.2 | .7                      | .3              | .0                     | 4.2                                | 18093                   |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## WEATHER CONDITIONS

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-68 YEARS ALL MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| JAN    | ALL               |                    | .0                        | .1                               | 10.7                    |      | 10.8                        | 3.5 | .6                      | .5              | .1                     | 4.6                                | 17344                   |
| FEB    |                   |                    | .2                        | .4                               | 11.7                    |      | 12.1                        | 4.9 | .3                      | .6              | .1                     | 3.8                                | 15763                   |
| MAR    |                   | .0                 | .8                        | .3                               | 12.2                    |      | 13.0                        | 4.9 | .2                      | .6              | .4                     | 6.1                                | 17269                   |
| APR    |                   | .4                 | 3.9                       | .1                               | 8.6                     | .0   | 12.3                        | 4.0 | .0                      | .3              | .3                     | 4.7                                | 16068                   |
| MAY    |                   | 1.9                | 9.8                       | .0                               | 2.3                     | .1   | 11.6                        | 3.8 | .1                      |                 | .2                     | 4.0                                | 16609                   |
| JUN    |                   | 2.9                | 6.7                       |                                  | .1                      | .1   | 6.8                         | 1.8 | .0                      |                 | .1                     | 2.0                                | 16070                   |
| JUL    |                   | 5.0                | 7.5                       |                                  |                         | .1   | 7.5                         | .6  | .0                      |                 | .1                     | .7                                 | 17350                   |
| AUG    |                   | 3.6                | 7.6                       |                                  |                         | .0   | 7.6                         | 1.8 | .0                      |                 | .0                     | 1.9                                | 17352                   |
| SEP    |                   | 1.0                | 3.6                       | .0                               | .0                      | .0   | 5.1                         | 2.9 | .2                      |                 | .1                     | 3.1                                | 17503                   |
| OCT    |                   | .2                 | 3.5                       | .0                               | 2.3                     | .0   | 5.7                         | 3.1 | .3                      | .0              | .1                     | 3.5                                | 18086                   |
| NOV    |                   |                    | .5                        | .3                               | 7.5                     |      | 7.9                         | 2.9 | .4                      | .6              | .0                     | 3.9                                | 17512                   |
| DEC    |                   |                    | .1                        | .1                               | 6.9                     |      | 7.1                         | 3.2 | .7                      | .3              | .0                     | 4.2                                | 18093                   |
| TOTALS |                   | 1.2                | 3.7                       | .1                               | 5.2                     | .0   | 8.9                         | 3.1 | .2                      | .2              | .1                     | 3.7                                | 205020                  |

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

**NOTE:** A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than  $5/8$  mile.

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS  
ATMOSPHERIC PHENOMENA

93037  
STATION

COLORADO SPRINGS COLO/PETERSON FO 46-68  
STATION NAME YEARS

ALL  
MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| JAN    | DAILY           |                    | 2.2                       | 1.3                               | 29.9                    |      | 33.7                       | 14.0 | 1.4                     | 2.2             | .1                     | 16.4                               | 713                   |
| FEB    |                 | .2                 | 3.8                       | 1.7                               | 39.1                    |      | 38.6                       | 18.2 | 1.4                     | 2.6             |                        | 20.6                               | 650                   |
| MAR    |                 | .8                 | 7.6                       | 1.7                               | 35.9                    |      | 40.8                       | 19.0 | 1.3                     | 2.8             | .7                     | 22.5                               | 710                   |
| APR    |                 | 5.2                | 24.8                      | 1.7                               | 24.1                    | 2.1  | 42.6                       | 15.6 | .6                      | .9              | .2                     | 15.7                               | 660                   |
| MAY    |                 | 24.2               | 49.1                      |                                   | 8.2                     | 5.7  | 57.6                       | 17.0 | .1                      |                 |                        | 17.0                               | 662                   |
| JUN    |                 | 34.1               | 46.8                      |                                   | .6                      | 8.3  | 53.2                       | 10.2 | .2                      |                 |                        | 10.3                               | 660                   |
| JUL    |                 | 53.0               | 68.2                      |                                   |                         | 5.6  | 70.5                       | 3.2  | .1                      |                 |                        | 5.3                                | 713                   |
| AUG    |                 | 40.5               | 59.8                      |                                   |                         | 2.4  | 62.1                       | 8.3  | .4                      |                 |                        | 8.4                                | 713                   |
| SEP    |                 | 15.9               | 37.1                      | .3                                | 2.3                     | 2.3  | 38.6                       | 13.6 | .4                      |                 |                        | 13.8                               | 690                   |
| OCT    |                 | 2.9                | 19.2                      | .3                                | 9.5                     | .3   | 24.8                       | 9.1  | .4                      | .3              | .1                     | 9.5                                | 713                   |
| NOV    |                 | .3                 | 7.9                       | 2.6                               | 24.5                    | .1   | 28.8                       | 12.9 | .7                      | .9              |                        | 14.1                               | 690                   |
| DEC    |                 |                    | 2.6                       | .8                                | 26.4                    |      | 29.2                       | 11.4 | .7                      | 1.7             |                        | 12.9                               | 713                   |
| TOTALS |                 | 14.8               | 27.6                      | .9                                | 16.4                    | 2.2  | 43.4                       | 12.9 | .6                      | .9              | .1                     | 14.0                               | 8307                  |

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

SNOWFALL\*

DERIVED FROM DAILY OBSERVATIONS

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

|  |                                      |                        |
|--|--------------------------------------|------------------------|
| Air Force Stations                     | From beginning of record thru 1945   | Snow depth at 0800 LST |
|  | Jan 46-May 57                        | Snow depth at 1230 GCT |
|  | Jun 57-present                       | Snow depth at 1200 GCT |
| U. S. Navy and Weather Bureau Stations | From beginning of record thru Jun 52 | Snow depth at 0030 GCT |
|  | Jul 52-May 57                        | Snow depth at 1230 GCT |
|  | Jun 57-present                       | Snow depth at 1200 GCT |

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,  
~~but has been removed from the summary since that time.~~

3 DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS COLO/PETERSON FD 42-63

STATION

STATION NAME

YEARS

|                | AMOUNTS (INCHES) |       |         |         |         |         |         |          |           |           |            |             |            |      | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO.<br>OF<br>OBS. | MONTHLY AMOUNTS<br>(INCHES) |       |  |
|----------------|------------------|-------|---------|---------|---------|---------|---------|----------|-----------|-----------|------------|-------------|------------|------|---|----------------------------|-----------------------------|-------|--|
| PRECIP.        | NONE             | TRACE | 01      | 02-.05  | .06-.10 | .11-.25 | .26-.50 | .51-1.00 | 1.01-2.50 | 2.51-5.00 | 5.01-10.00 | 10.01-20.00 | OVER 20.00 | MEAN |   |                            | GREATEST                    | LEAST |  |
| SNOW/FALL      | NONE             | TRACE | 0.1-0.4 | 0.5-1.4 | 1.5-2.4 | 2.5-3.4 | 3.5-4.4 | 4.5-6.4  | 6.5-10.4  | 10.5-15.4 | 15.5-25.4  | 25.5-50.4   | OVER 50.4  |      |   |                            |                             |       |  |
| SNOW-<br>DEPTH | NONE             | TRACE | 1       | 2       | 3       | 4-6     | 7-12    | 13-24    | 25-36     | 37-48     | 49-60      | 61-120      | OVER 120   |      |   |                            |                             |       |  |
| JAN            | 67.7             | 19.0  | 2.9     | 5.5     | 1.4     | 2.6     | .9      | .1       |           |           |            |             |            | 13.3 | 806   | .33                        | 1.12                        | TRACE |  |
| FEB            | 61.6             | 22.4  | 3.1     | 6.5     | 2.7     | 2.7     | .8      |          |           |           |            |             |            | 15.9 | 735   | .33                        | .96                         | .03   |  |
| MAR            | 59.1             | 19.5  | 4.9     | 6.8     | 3.5     | 3.6     | 2.2     | .4       |           |           |            |             |            | 21.4 | 775   | .66                        | 1.33                        | .01   |  |
| APR            | 55.9             | 20.5  | 3.9     | 5.5     | 3.5     | 0.1     | 1.3     | 1.7      | .9        |           |            |             |            | 23.6 | 750   | 1.23                       | 5.90                        | .01   |  |
| MAY            | 41.7             | 26.5  | 5.2     | 7.9     | 4.0     | 7.1     | 3.5     | 3.2      | 1.0       |           |            |             |            | 31.9 | 775   | 2.14                       | 5.67                        | .62   |  |
| JUN            | 47.6             | 22.7  | 5.0     | 5.6     | 5.1     | 6.4     | 4.1     | 1.6      | 1.2       | .1        |            |             |            | 29.7 | 750   | 1.96                       | 6.00                        | .15   |  |
| JUL            | 29.7             | 27.0  | 6.0     | 9.2     | 7.1     | 9.4     | 6.6     | 3.8      | 1.1       | .1        |            |             |            | 43.3 | 806   | 2.97                       | 5.27                        | .94   |  |
| AUG            | 37.6             | 23.2  | 4.6     | 8.7     | 6.9     | 6.5     | 6.2     | 3.6      | .7        |           |            |             |            | 37.2 | 806   | 2.36                       | 5.22                        | .15   |  |
| SEP            | 62.3             | 20.5  | 2.7     | 4.0     | 1.6     | 3.6     | 2.2     | 1.2      | .9        |           |            |             |            | 16.2 | 810   | 1.06                       | 3.56                        | TRACE |  |
| OCT            | 75.1             | 11.1  | 1.6     | 4.1     | 2.0     | 2.6     | 2.2     | 1.0      | .4        |           |            |             |            | 13.7 | 837   | .79                        | 2.02                        | .01   |  |
| NOV            | 72.1             | 16.8  | 1.9     | 3.0     | 2.0     | 3.0     | 1.6     | .2       |           |           |            |             |            | 11.6 | 810   | .45                        | 2.21                        | TRACE |  |
| DEC            | 71.3             | 18.3  | 1.8     | 4.3     | 1.7     | 2.4     | .2      |          |           |           |            |             |            | 10.4 | 837   | .24                        | .67                         | .02   |  |
| ANNUAL         | 56.9             | 20.7  | 3.7     | 6.0     | 3.5     | 4.7     | 2.6     | 1.4      | .5        | .0        |            |             |            | 22.3 | 9497  | 14.52                      |                             |       |  |

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS COLO/PETERSON FO 42-66

STATION

STATION NAME

YEARS

## 24 HOUR AMOUNTS IN INCHES

| YEAR       | JAN.  | FEB. | MAR. | APR. | MAY  | JUN  | JUL. | AUG. | SEP.  | OCT. | NOV.  | DEC. | ALL MONTHS |
|------------|-------|------|------|------|------|------|------|------|-------|------|-------|------|------------|
| 42         |       |      |      |      |      |      |      |      | .72   | .55  | TRACE | .09  |            |
| 43         | .16   | .04  | .12  | 1.31 | .84  | .98  | 1.67 | .97  | .01   | .02  | .32   | .18  | 1.67       |
| 44         | .15   | .03  | .56  | .55  | .65  | .24  | .26  | .38  | .07   | .23  | .12   | .15  | .65        |
| 45         | .39   | .19  | .32  | .51  | .86  | .47  | 1.80 | 1.04 | .20   | 1.26 | TRACE | .04  | 1.80       |
| 46         | .20   | .30  | .10  | .36  | .75  | .30  | 1.29 | .65  | TRACE | .72  | .47   | .49  | 1.29       |
| 47         | .29   | .22  | .36  | 2.30 | 1.33 | .90  | .63  | .65  | .20   | .90  | .19   | .14  | 2.30       |
| 48         | .20   | .12  |      |      |      |      | .39  | 1.61 | .31   | .08  | .02   | .23  |            |
| 49         | .12   | .05  | .30  | .16  | .36  | 2.17 | 2.16 | .10  | .19   | .34  | TRACE | .06  | 2.17       |
| 50         | .21   | .03  | .19  | .25  | .56  | .58  | .88  | .29  | 1.06  | .12  | .10   | .05  | 1.06       |
| 51         | .34   | .12  | .17  | .13  | .98  | .26  | 3.30 | 1.30 | .40   | 1.06 | .40   | .05  | 3.00       |
| 52         | .03   | .04  | .29  | .57  | .74  | .25  | .19  | 1.03 | .25   | .04  | .10   | .08  | 1.03       |
| 53         | TRACE | .12  | .13  | .55  | .66  | .64  | .42  | .68  | TRACE | .30  | .28   | .07  | .68        |
| 54         | .14   | .03  | .15  | .34  | 1.05 | 1.98 | 1.27 | .72  | 1.09  | .17  | .20   | .16  | 1.95       |
| 55         | .13   | .21  | .11  | .24  | 2.23 | .13  | 1.36 | .76  | 1.02  | .21  | .15   | .02  | 2.23       |
| 56         | .52   | .08  | .40  | .60  | .34  | .15  | .82  | .44  | .59   | .09  | .75   | .14  | .82        |
| 57         | .16   | .45  | .31  | 1.76 | 2.12 | .47  | 1.02 | .58  | .46   | .40  | .60   | .02  | 2.12       |
| 58         | .06   | .13  | .33  | .28  | 1.65 | 1.20 | .94  | .34  | .93   | .34  | .10   | .11  | 1.65       |
| 59         | .20   | .23  | .52  | .91  | 1.13 | .49  | .34  | .79  | 1.38  | .50  | .03   | .02  | 1.38       |
| 60         | .08   | .26  | .40  | .23  | .69  | .33  | .72  | .45  | .22   | 1.54 | .21   | .22  | 1.54       |
| 61         | .10   | .30  | .41  | .32  | .19  | 1.22 | .43  | .60  | .67   | .49  | .20   | .21  | 1.22       |
| 62         | .32   | .10  | .46  | .18  | .22  | 1.19 | .38  | .05  | .30   | .78  | .45   | .02  | 1.19       |
| 63         | .31   | .10  | .34  | .02  | .23  | .41  | .46  | 1.30 | .55   | .39  | .32   | .42  | 1.30       |
| 64         | TRACE | .12  | .59  | .01  | 1.32 | .52  | .50  | .23  | 1.12  | .03  | .37   | .12  | 1.32       |
| 65         | .14   | .28  | .46  | .92  | .77  | 2.56 | .88  | 1.24 | .86   | .24  | TRACE | .20  | 2.56       |
| 66         | .11   | .32  | .01  | .25  | .32  | 1.53 | .67  | .41  | 1.20  | .26  | .16   | .16  | 1.53       |
| 67         | .27   | .10  | .11  | 1.82 | 1.32 | .81  | 2.01 | .83  | .25   | .59  | .12   | .17  | 2.01       |
| 68         | .03   | .09  | .30  | .22  | .29  | .08  | .88  | .67  | .56   | .31  | .32   | .12  | .88        |
| MEAN       | .18   | .16  | .30  | .60  | .87  | .79  | .98  | .70  | .54   | .44  | .22   | .14  | 1.57       |
| S. D.      | .138  | .115 | .158 | .599 | .552 | .671 | .665 | .391 | .411  | .393 | .193  | .113 | .606       |
| TOTAL OBS. | 806   | 735  | 775  | 750  | 775  | 750  | 806  | 806  | 810   | 837  | 810   | 837  | 9497       |

3

### PRECIPITATION

(FROM DAILY OBSERVATIONS)

93037      COLORADO SPRINGS COLO/PETERSON FD      42-68  
STATION      STATION NAME

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS COLO/PETERSON FD 46-68  
STATION STATION NAME YEARS

|               | AMOUNTS (INCHES) |       |        |         |         |         |         |         |          |           |          |           |           | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO.<br>OF<br>OBS. | MONTHLY AMOUNTS<br>(INCHES) |          |       |
|---------------|------------------|-------|--------|---------|---------|---------|---------|---------|----------|-----------|----------|-----------|-----------|---|----------------------------|-----------------------------|----------|-------|
| PRECIP        | NONE             | TRACE | 01     | 02-05   | 06-10   | 11-25   | 26-50   | 51-100  | 101-250  | 251-500   | 501-1000 | 1001-2000 | OVER 2000 |   |                            | MEAN                        | GREATEST | LEAST |
| SNOWFALL      | NONE             | TRACE | 01-0.4 | 0.5-1.4 | 1.5-2.4 | 2.5-3.4 | 3.5-4.4 | 4.5-6.4 | 6.5-10.4 | 10.5-15.4 | 15-24    | 25-50.4   | OVER 50.4 |   |                            |                             |          |       |
| SNOW<br>DEPTH | NONE             | TRACE | 1      | 2       | 3       | 4-6     | 7-12    | 13-24   | 25-36    | 37-48     | 49       | 61-120    | OVER 120  |   |                            |                             |          |       |
| JAN           | 67.2             | 19.1  | 3.9    | 4.1     | 1.6     | 1.1     | .4      | .3      | .1       |           |          |           |           | 13.7  | 713                        | 4.9                         | 14.9     | TRACE |
| FEB           | 62.5             | 21.4  | 7.1    | 4.6     | 2.6     | .6      | .6      | .5      | .2       |           |          |           |           | 16.2  | 650                        | 5.2                         | 15.0     | .2    |
| MAR           | 62.0             | 17.9  | 8.8    | 5.3     | 2.9     | 1.5     | .7      | .7      |          | .1        |          |           |           | 20.1  | 682                        | 7.6                         | 20.5     | .1    |
| APR           | 73.8             | 13.9  | 4.4    | 4.4     | 1.4     | .9      | .3      | .2      | .2       | .5        | .2       |           |           | 12.3  | 660                        | 6.5                         | 42.7     | .0    |
| MAY           | 89.7             | 7.2   | 1.6    | .4      | .6      | .3      |         |         |          | .1        |          |           |           | 3.1   | 602                        | 1.4                         | 14.9     | .0    |
| JUN           | 96.8             | 3.0   | .2     |         |         |         |         |         |          |           |          |           |           | .2  | 660                        | TRACE                       | .1       | .0    |
| JUL           | 98.0             | 2.0   |        |         |         |         |         |         |          |           |          |           |           |   | 713                        | TRACE                       | TRACE    | .0    |
| AUG           | 98.9             | 1.0   | .1     |         |         |         |         |         |          |           |          |           |           | .1  | 713                        | TRACE                       | .2       | .0    |
| SEP           | 96.4             | 2.5   | .1     | .4      |         |         | .1      | .1      | .1       | .1        |          |           |           | 1.2   | 690                        | 1.5                         | 27.9     | .0    |
| OCT           | 90.2             | 5.8   | 1.8    | .7      | .3      | .8      | .1      | .3      |          |           |          |           |           | 4.1   | 713                        | 1.9                         | 9.0      | .0    |
| NOV           | 73.5             | 14.8  | 3.8    | 3.9     | 2.0     | .9      | .1      | .7      | .3       |           |          |           |           | 11.7  | 690                        | 5.2                         | 22.3     | TRACE |
| DEC           | 71.9             | 17.5  | 4.6    | 2.8     | 1.0     | 1.3     | .6      | .1      | .1       |           |          |           |           | 10.5  | 713                        | 3.9                         | 11.7     | .2    |
| ANNUAL        | 81.7             | 10.5  | 3.2    | 2.2     | 1.0     | .6      | .2      | .2      | .1       | .1        | .0       |           |           | 7.8   | 6279                       | 38.1                        | ✕        | ✕     |

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/PAAC

# EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

23037 COLORADO SPRINGS COLO/PETERSON FLD 42-43, 45-68

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

| MONTH<br>YEAR | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUN.  | JUL.  | AUG.  | SEP.  | OCT.  | NOV.  | DEC.  | ALL<br>MONTHS |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 42            |       |       |       |       |       |       |       |       |       |       |       |       |               |
| 43            |       |       |       |       |       |       |       |       |       |       |       |       |               |
| 44            |       |       |       |       |       |       |       |       |       |       |       |       |               |
| 45            |       |       |       |       |       |       |       |       |       |       |       |       |               |
| 46            | 2.0   | 2.2   | 1.0   | .0    | .1    | .0    | .0    | .0    | TRACE | 4.0   | 6.6   | 4.9   | 6.6           |
| 47            | 2.9   | 2.2   | 3.6   | 2.0   | TRACE | TRACE | .0    | .0    | .0    | TRACE | .5    | 4.0   | 4.0           |
| 48            | 6.0   | 6.5   |       |       |       |       | .0    | .0    | .0    | TRACE | .4    | 2.8   |               |
| 49            | 2.3   | 1.8   | 3.3   | 2.1   | .2    | TRACE | TRACE | .0    | TRACE | 3.0   | TRACE | .7    | 3.3           |
| 50            | 4.3   | .2    | 2.7   | .8    | .8    | TRACE | TRACE | TRACE | 1.0   | .0    | 1.3   | .8    | 4.3           |
| 51            | 3.3   | 1.5   | 1.7   | .7    | TRACE | .1    | TRACE | TRACE | .8    | 3.2   | 5.1   | .6    | 5.1           |
| 52            | .2    | .4    | 3.0   | 1.1   | .3    | TRACE | TRACE | .2    | TRACE | TRACE | 1.4   | 1.0   | 3.0           |
| 53            | TRACE | 1.8   | 1.5   | 3.1   | 2.1   | TRACE | TRACE | .0    | .0    | 1.0   | 3.0   | 2.1   | 3.1           |
| 54            | 1.5   | .4    | 1.2   | 3.2   | 2.3   | TRACE | TRACE | TRACE | TRACE | .1    | 1.9   | 2.0   | 3.2           |
| 55            | 1.9   | 4.7   | 2.2   | 2.7   | TRACE | TRACE | TRACE | TRACE | .0    | TRACE | 2.4   | .4    | 4.7           |
| 56            | 7.6   | .8    | 5.2   | 2.2   | TRACE | .0    | .0    | .0    | .0    | .4    | 7.4   | 2.0   | 7.6           |
| 57            | 2.6   | 4.3   | 3.4   | 16.7  | 11.8  | TRACE | .0    | .0    | .8    | 1.0   | 9.3   | .2    | 16.7          |
| 58            | 1.0   | 1.7   | 4.5   | 2.6   | .0    | .0    | .0    | .0    | TRACE | 2.8   | 1.9   | .8    | 4.5           |
| 59            | 2.5   | 3.4   | 3.6   | 11.6  | .0    | .0    | .0    | .0    | 13.6  | 5.5   | .5    | .2    | 13.6          |
| 60            | .8    | 3.6   | 4.5   | 2.2   | 2.7   | .0    | .0    | .0    | .0    | .8    | 1.8   | 3.5   | 4.5           |
| 61            | 2.0   | 4.5   | 3.3   | 3.2   | .5    | .0    | .0    | .0    | 4.2   | 4.9   | 2.0   | 3.0   | 4.9           |
| 62            | 3.0   | 1.0   | 4.8   | .0    | .0    | .0    | .0    | .0    | TRACE | .0    | 3.2   | .4    | 5.0           |
| 63            | 2.3   | 1.0   | 4.0   | TRACE | .0    | .0    | .0    | .0    | .0    | 3.0   | 2.4   | 6.5   | 6.5           |
| 64            | TRACE | 1.5   | 13.2  | .1    | .0    | .0    | .0    | .0    | .0    | .0    | 4.8   | 2.7   | 13.2          |
| 65            | 3.2   | 4.4   | 5.2   | 1.2   | .0    | .0    | .0    | .0    | .1    | TRACE | TRACE | 2.5   | 5.2           |
| 66            | 2.2   | 3.8   | .1    | 2.9   | 2.3   | .0    | .0    | .0    | .0    | 2.6   | 1.7   | 2.3   | 2.8           |
| 67            | 3.7   | 3.1   | 1.8   | 13.9  | TRACE | .0    | .0    | .0    | .0    | TRACE | 1.3   | 4.0   | 13.9          |
| 68            | 1.3   | 2.1   | 4.1   | 1.7   | .2    | .0    | .0    | .0    | .0    | .2    | 3.9   | 3.3   | 4.1           |
| MEAN          | 2.57  | 2.56  | 3.53  | 3.40  | 1.06  | .00   | TRACE | .01   | .69   | 1.45  | 2.56  | 2.25  | 6.50          |
| S. D.         | 1.855 | 1.778 | 2.603 | 4.527 | 2.562 | .020  | .000  | .041  | 2.912 | 1.784 | 2.072 | 1.695 | 4.016         |
| TOTAL OBS.    | 713   | 650   | 682   | 660   | 682   | 660   | 713   | 713   | 690   | 713   | 690   | 713   | 8279          |

## EXTREME VALUES

**SNEE FALL**  
(FROM DAILY OBSERVATIONS)

|              |  |                     |
|--------------|--|---------------------|
| <u>97037</u> | <u>COLORADO SPRINGS COLO/PETERSON FD</u> | <u>42-43, 45-00</u> |
| STATION      | STATION NAME                             | YEARS               |

[illegible]

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS COLO/PETERSON FO 42-68

STATION

STATION NAME

YEARS

| PRECIP         | AMOUNTS (INCHES) |       |         |         |         |         |         |          |           |           |            |             |            | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO.<br>OF<br>OBS. | MONTHLY AMOUNTS<br>(INCHES) |          |       |
|----------------|------------------|-------|---------|---------|---------|---------|---------|----------|-----------|-----------|------------|-------------|------------|---|----------------------------|-----------------------------|----------|-------|
|                | NONE             | TRACE | .01     | .02-.05 | .06-.10 | .11-.25 | .26-.50 | .51-1.00 | 1.01-2.50 | 2.51-5.00 | 5.01-10.00 | 10.01-20.00 | OVER 20.00 |   |                            | MEAN                        | GREATEST | LEAST |
| SNOWFALL       | NONE             | TRACE | 0.1-0.4 | 0.5-1.4 | 1.5-2.4 | 2.5-3.4 | 3.5-4.4 | 4.5-6.4  | 6.5-10.4  | 10.5-15.4 | 15.5-25.4  | 25.5-50.4   | OVER 50.4  |   |                            |                             |          |       |
| SNOW-<br>DEPTH | NONE             | TRACE | 1       | 2       | 3       | 4-6     | 7-12    | 13-24    | 25-36     | 37-48     | 49-60      | 61-120      | OVER 120   |   |                            |                             |          |       |
| JAN            | 56.5             | 22.7  | 11.4    | 4.2     | 2.2     | 2.2     | .7      |          |           |           |            |             |            | 20.6  | 806                        |                             |          |       |
| FEB            | 60.1             | 19.3  | 9.2     | 5.2     | 4.0     | 2.1     | .1      |          |           |           |            |             |            | 20.7  | 706                        |                             |          |       |
| MAR            | 60.1             | 18.7  | 0.2     | 2.6     | 2.4     | 3.8     | .3      |          |           |           |            |             |            | 15.2  | 744                        |                             |          |       |
| APR            | 87.1             | 5.7   | 2.7     | 1.3     | .5      | 1.3     | 1.2     |          |           |           |            |             |            | 7.2   | 750                        |                             |          |       |
| MAY            | 97.9             | 1.4   | .3      | .1      | .1      | .1      |         |          |           |           |            |             |            | .6  | 775                        |                             |          |       |
| JUN            | 100.0            |       |         |         |         |         |         |          |           |           |            |             |            |   | 750                        |                             |          |       |
| JUL            | 100.0            |       |         |         |         |         |         |          |           |           |            |             |            |   | 806                        |                             |          |       |
| AUG            | 100.0            |       |         |         |         |         |         |          |           |           |            |             |            |   | 806                        |                             |          |       |
| SEP            | 99.6             | .1    |         |         |         | .1      | .1      |          |           |           |            |             |            | .2  | 810                        |                             |          |       |
| OCT            | 99.6             | 2.5   | 1.0     | .2      | .1      | .1      | .2      | .2       |           |           |            |             |            | 1.9   | 837                        |                             |          |       |
| NOV            | 75.4             | 14.3  | 4.2     | 3.0     | .9      | 2.1     | .1      |          |           |           |            |             |            | 10.2  | 810                        |                             |          |       |
| DEC            | 65.0             | 20.2  | 3.3     | 5.4     | 3.9     | 1.4     | .1      |          |           |           |            |             |            | 14.2  | 837                        |                             |          |       |
| ANNUAL         | 83.7             | 8.7   | 3.2     | 1.8     | 1.2     | 1.1     | .2      | .6       |           |           |            |             |            | 7.0   | 9437                       |                             |          |       |

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/ETAC

# EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS COLO/PETERSON FC 42-6#

STATION

STATION NAME

YEARS

## DAILY SNOW DEPTH IN INCHES

| MONTH<br>YEAR | JAN.  | FEB.  | MAR.  | APR.  | MAY   | JUN. | JUL. | AUG. | SEP.  | OCT.  | NOV.  | DEC.  | ALL<br>MONTHS |
|---------------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|---------------|
| 42            |       |       |       |       |       |      |      |      |       | 0     | TRACE | TRACE | 3             |
| 43            | 5     | 2     | 4     | 0     | TRACE | 0    | 0    | 0    | 0     | 0     | 4     | 2     | 5             |
| 44            | TRACE |       |       | 6     | 0     | 0    | 0    | 0    | 0     | 0     | 2     | 2     |               |
| 45            | 5     | 7     | TRACE | 7     | 0     | 0    | 0    | 0    | 0     | TRACE | 1     | TRACE | 7             |
| 46            | 2     | 2     | 1     | 0     | TRACE | 0    | 0    | 0    | 0     | 2     | 5     | 3     | 8             |
| 47            | 7     | 5     | 4     | 1     | 0     | 0    | 0    | 0    | 0     | 0     | 1     | 4     | 7             |
| 48            | 8     | 3     |       |       |       |      |      |      |       | TRACE | TRACE | 2     |               |
| 49            | 3     | 1     | 2     | 1     | 0     | 0    | 0    | 0    | 0     | 1     | 0     | TRACE | 3             |
| 50            | 1     | TRACE | 2     | 0     | 0     | 0    | 0    | 0    | 0     | 0     | 0     | TRACE | 2             |
| 51            | 4     | 3     | TRACE | TRACE | 0     | 0    | 0    | 0    | TRACE | 1     | 4     | 1     | 4             |
| 52            | TRACE | TRACE | 3     | TRACE | 0     | 0    | 0    | 0    | 0     | 0     | 2     | 2     | 3             |
| 53            | TRACE | 2     | TRACE | 3     | 2     | 0    | 0    | 0    | 0     | 1     | 4     | 1     | 4             |
| 54            | 2     | TRACE | 1     | TRACE | 3     | 0    | 0    | 0    | 0     | TRACE | 2     | 3     | 3             |
| 55            | 2     | 4     | 2     | 2     | 0     | 0    | 0    | 0    | 0     | TRACE | 2     | TRACE | 4             |
| 56            | 8     | 5     | 5     | 2     | 0     | 0    | 0    | 0    | 0     | TRACE | 6     | 3     | 8             |
| 57            | 3     | 1     | 2     | 12    | 5     | 0    | 0    | 0    | 0     | TRACE | 6     | TRACE | 12            |
| 58            | 1     | 1     | 4     | 1     | 0     | 0    | 0    | 0    | 0     | TRACE | 2     | TRACE | 4             |
| 59            | 1     | 4     | 4     | 10    | 0     | 0    | 0    | 0    | 12    | 20    | TRACE | TRACE | 20            |
| 60            | 1     | 3     | 3     | 1     | TRACE | 0    | 0    | 0    | 0     | 1     | 1     | 4     | 5             |
| 61            | 2     | 4     | 5     | 2     | 0     | 0    | 0    | 0    | 0     | 2     | 2     | 4     | 5             |
| 62            | 4     | 3     | 3     | TRACE | 0     | 0    | 0    | 0    | 0     | 0     | 4     | TRACE | 4             |
| 63            | 1     | 1     | 4     | 0     | 0     | 0    | 0    | 0    | 0     | 0     | 1     | 6     | 6             |
| 64            | TRACE | 2     | 10    | TRACE | 0     | 0    | 0    | 0    | 0     | 0     | 4     | 4     | 10            |
| 65            | 3     | 5     | 8     | TRACE | 0     | 0    | 0    | 0    | 0     | 0     | TRACE | 3     | 6             |
| 66            | 3     | 6     | TRACE | 1     | 1     | 0    | 0    | 0    | 0     | 1     | 2     | 3     | 6             |
| 67            | 3     | 3     | 1     | 3     | TRACE | 0    | 0    | 0    | 0     | TRACE | 1     | 8     | 8             |
| 68            | 2     | 3     | 4     | 2     | 0     | 0    | 0    | 0    | 0     | TRACE | 4     | 4     | 4             |
| MEAN          | 2.7   | 2.8   | 3.0   | 2.2   | .4    | .0   | .0   | .0   | .4    | 1.1   | 2.5   | 2.3   | 5.2           |
| S.D.          | 2.323 | 1.893 | 2.359 | 3.236 | 1.193 | .000 | .000 | .000 | 2.309 | 3.832 | 2.064 | 2.053 | 3.795         |
| TOTAL OBS.    | 806   | 706   | 744   | 750   | 775   | 750  | 806  | 806  | 810   | 837   | 810   | 837   | 9437          |

## EXTREME VALUES

S42H DEPTH  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS COLO/PETERSON FD 42-63

DAILY SNOW DEPTH IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

3

1



C

USAF ETAC FORM 0-88-5 (OU)

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SURFACE - 1405  
(FROM DAILY OBSERVATIONS)

93037 COLORADO SPRINGS-COLD/PETERSON FD. 46-48, 51-56, 67-68  
STATION STATION NAME YEARS

DAILY PEAK GUSTS IN KNOTS  
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

| MONTH<br>YEAR | JAN. | FEB. | MAR. | APR.   | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | ALL<br>MONTHS |
|---------------|------|------|------|--------|-----|------|------|------|------|------|------|------|---------------|
| 46            |      | W 57 |      | CALH   |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 9    |      | 1      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 47            | W    | 70   | W 57 | NNW 39 |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 6    | 2    | 14   |        |     |      |      |      |      |      |      |      |               |
| 48            |      |      | W 47 |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               |      |      | 27   |        |     |      | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 49            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 50            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 51            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   |      |      |      |      |      |      |      |               |
| 52            |      | W 30 |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               |      | 20   | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 53            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 54            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 55            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 56            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 57            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 58            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| 59            |      |      |      |        |     |      |      |      |      |      |      |      | WINDS<br>DAYS |
|               | 0    | 0    | 0    | 0      | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |               |
| MEAN          |      |      |      |        |     |      |      |      |      |      |      |      |               |
| S.D.          |      |      |      |        |     |      |      |      |      |      |      |      |               |
| TOTAL OBS.    |      |      |      |        |     |      |      |      |      |      |      |      |               |

## EXTREME VALUES

| STATION | STATION NAME                      | YEARS               |
|---------|-----------------------------------|---------------------|
| 93037   | COLORADO SPRINGS GOLD/PETERSON FB | 46-48, 51-55, 67-68 |

DAILY PEAK GUSTS IN KNOTS  
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

[illegible]

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON F.O. 43-60 YEARS JAN MONTH 0000-0000 HOURS (L.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|---------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                   | .7    | 4.0   | 9.7    | 2.3     | .7      | .2      | .0      |         |         |         |     | 17.6  | 8.7             |
| NNE                 | 1.0   | 5.2   | 10.0   | 1.0     | .3      | .1      |         |         |         |         |     | 17.5  | 7.6             |
| NE                  | .8    | 3.6   | 8.6    | .7      | .0      |         |         |         |         |         |     | 10.8  | 7.1             |
| ENE                 | .6    | 2.6   | 2.3    | .2      | .1      |         |         |         |         |         |     | 5.8   | 6.6             |
| E                   | .7    | 2.1   | 1.8    | .7      | .0      | .0      |         |         |         |         |     | 5.1   | 6.9             |
| ESE                 | .2    | 1.3   | 1.1    | .5      |         | .0      |         |         |         |         |     | 3.2   | 7.3             |
| SE                  | .8    | 1.3   | 1.1    | .3      |         |         |         |         |         |         |     | 3.5   | 6.3             |
| SSE                 | .3    | 1.2   | 1.7    | .7      | .1      | .1      |         |         |         |         |     | 4.3   | 7.9             |
| S                   | .4    | .8    | .2     | .3      | .1      | .0      |         |         |         |         |     | 1.9   | 8.0             |
| SSW                 | .1    | .5    | .3     | .2      | .2      | .1      |         |         |         |         |     | 1.5   | 10.1            |
| SW                  | .2    | .6    | .1     | .3      | .2      | .0      |         |         |         |         |     | 1.5   | 9.6             |
| WSW                 | .2    | .5    | .3     | .3      | .3      | .1      |         |         |         |         |     | 1.5   | 9.9             |
| W                   | .1    | .5    | .6     | .0      | .2      | .2      | .1      |         | .0      |         |     | 2.2   | 11.3            |
| WNW                 | .2    | .9    | .7     | .1      | .4      | .0      | .2      | .0      |         |         |     | 2.6   | 11.4            |
| NW                  | .4    | 1.4   | 2.2    | 1.1     | 1.1     | .6      | .0      | .0      |         |         |     | 6.7   | 11.5            |
| NNW                 | .3    | 2.4   | 5.0    | 2.5     | 1.1     | .6      | .1      |         |         |         |     | 12.3  | 10.5            |
| VARBL               |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                |       |       |        |         |         |         |         |         |         |         |     | 1.9   |                 |
|                     | 7.1   | 29.4  | 42.4   | 11.2    | 5.9     | 2.3     | .6      | .1      | .0      |         |     | 100.0 | 8.3             |

TOTAL NUMBER OF OBSERVATIONS 2093

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 03037 STATION NAME COLORADO SPRINGS GOLD-PETERSON FLD YEARS 47-68 MONTH JAN  
CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .2    | 4.9   | 8.9    | 2.7     | .8      | .2      | .0      |         |         |         |     | 18.3  | 8.6                   |
| NNE                     | .6    | 4.9   | 10.6   | 1.2     | .3      | .0      |         |         |         |         |     | 17.6  | 7.6                   |
| NE                      | .6    | 5.0   | 3.3    | .4      | .1      |         |         |         |         |         |     | 11.4  | 6.6                   |
| ENE                     | .3    | 2.0   | 1.9    | .3      | .1      |         |         |         |         |         |     | 4.7   | 7.0                   |
| E                       | .2    | 1.7   | 1.6    | .3      | .1      |         |         |         |         |         |     | 3.8   | 7.2                   |
| ESE                     | .3    | .8    | 1.0    | .2      | .1      | .0      |         |         |         |         |     | 2.5   | 7.7                   |
| SE                      | .4    | 1.1   | 1.1    | .3      | .0      |         |         |         |         |         |     | 3.0   | 6.7                   |
| SSE                     | .2    | 1.1   | 1.4    | .3      | .1      | .1      |         |         |         |         |     | 3.2   | 7.9                   |
| S                       | .5    | .8    | .5     | .3      | .2      | .0      |         |         |         |         |     | 2.4   | 7.9                   |
| SSW                     | .2    | .3    | .3     | .4      | .3      |         |         |         |         |         |     | 1.4   | 9.8                   |
| SW                      | .3    | .5    | .2     | .4      | .3      |         |         |         |         |         |     | 1.7   | 8.9                   |
| WSW                     | .1    | .5    | .4     | .1      | .2      | .1      |         |         |         |         |     | 1.5   | 10.0                  |
| W                       | .1    | .5    | .1     | .4      | .3      | .1      | .0      |         |         |         |     | 1.5   | 12.4                  |
| WNW                     | .3    | .8    | .4     | .7      | .3      | .2      | .1      | .0      |         |         |     | 2.9   | 12.1                  |
| NW                      | .4    | 1.6   | 2.8    | 1.3     | .9      | .5      | .1      | .0      |         |         |     | 7.6   | 11.3                  |
| NNW                     | .5    | 2.5   | 5.4    | 3.5     | 1.4     | .5      | .1      |         |         |         |     | 14.0  | 10.6                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.5   |                       |
|                         | 6.0   | 28.7  | 42.0   | 12.9    | 5.6     | 1.9     | .5      | .1      |         |         |     | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 03037 STATION NAME COLORADO SPRINGS COLDPETERSON FD YEARS 43-63 MONTH JAN  
CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .8    | 5.7   | 9.1    | 2.3     | 1.0     | .4      | .1      |         |         |         |     | 19.3  | 8.7                   |
| NNE                     | .7    | 5.1   | 9.0    | 1.5     | .3      | .0      |         |         |         |         |     | 16.7  | 7.7                   |
| NE                      | .6    | 3.6   | 5.2    | .6      |         | .0      |         |         |         |         |     | 10.1  | 7.0                   |
| ENE                     | .2    | 2.2   | .8     | .6      |         |         |         |         |         |         |     | 3.8   | 6.8                   |
| E                       | .6    | 1.8   | 1.0    | .4      | .0      |         |         |         |         |         |     | 3.8   | 6.3                   |
| ESE                     | .3    | 1.2   | 1.2    | .3      |         | .0      |         |         |         |         |     | 3.2   | 7.3                   |
| SE                      | .4    | 1.3   | 1.4    | .2      | .2      | .0      |         |         |         |         |     | 3.5   | 7.3                   |
| SSE                     | .3    | .9    | 1.4    | .4      | .0      | .0      |         |         |         |         |     | 3.1   | 7.8                   |
| S                       | .4    | 1.1   | .8     | .6      | .1      | .0      |         |         |         |         |     | 3.8   | 7.8                   |
| SSW                     | .2    | .8    | .4     | .3      | .1      | .1      | .0      | .0      |         |         |     | 1.8   | 10.4                  |
| SW                      | .3    | .8    | .4     | .2      | .2      | .1      |         |         |         |         |     | 1.9   | 9.3                   |
| WSW                     | .2    | .5    | .3     | .4      | .1      | .0      |         |         |         |         |     | 1.5   | 9.2                   |
| W                       | .1    | .7    | .5     | .0      | .2      | .1      |         | .0      |         |         |     | 1.8   | 10.1                  |
| WNW                     | .2    | .9    | .5     | .5      | .1      | .2      | .1      | .0      |         |         |     | 2.6   | 10.8                  |
| NW                      | .6    | 2.2   | 2.5    | 1.5     | .6      | .4      | .1      |         |         |         |     | 7.8   | 9.9                   |
| NNW                     | .2    | 2.0   | 3.0    | 4.1     | 1.2     | .5      |         | .0      |         |         |     | 14.0  | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                       |
|                         | 6.0   | 30.3  | 40.3   | 13.9    | 4.5     | 2.3     | .4      | .2      |         |         |     | 100.0 | 8.6                   |

TOTAL NUMBER OF OBSERVATIONS 2088

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 25801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS GOLD-PETERSON FD YEARS 43-68 MONTH JAN  
CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .3    | 2.6   | 1.3    | 1.5     | .5      | .7      | .2      |         |         |         |     | 8.5   | 10.1                  |
| NNW                     | .7    | 2.6   | 1.7    | 1.0     | .2      | .0      |         |         |         |         |     | 6.1   | 7.4                   |
| N                       | .7    | 2.1   | 1.1    | .4      | .2      |         |         |         |         |         |     | 4.4   | 6.7                   |
| ENE                     | .8    | 1.3   | .8     | .2      | .1      |         |         |         |         |         |     | 3.2   | 6.3                   |
| E                       | .9    | 1.8   | 1.3    | .4      | .0      |         |         |         |         |         |     | 4.4   | 6.4                   |
| ESE                     | 1.0   | 2.7   | 2.0    | .3      | .3      |         |         |         |         |         |     | 6.3   | 6.3                   |
| SE                      | 1.5   | 4.1   | 3.3    | .9      | .1      |         |         |         |         |         |     | 10.0  | 6.6                   |
| SSE                     | 1.4   | 3.1   | 3.9    | 1.7     | .5      | .0      |         |         |         |         |     | 10.6  | 8.0                   |
| S                       | 1.1   | 2.6   | 2.2    | 1.3     | .1      | .1      |         |         |         |         |     | 7.5   | 7.7                   |
| SSW                     | .9    | 2.2   | 1.0    | 1.5     | .2      | .5      | .0      |         |         |         |     | 5.9   | 8.8                   |
| SW                      | .8    | 1.8   | .8     | .3      | .3      | .1      |         | .0      |         |         |     | 3.9   | 8.0                   |
| WSW                     | .3    | 1.0   | .5     | .2      | .2      | .1      | .0      | .0      |         |         |     | 2.6   | 10.0                  |
| W                       | .6    | .8    | .5     | .2      | .2      | .1      | .1      | .1      |         |         |     | 2.4   | 9.3                   |
| WNW                     | .7    | 1.0   | .3     | .2      | .2      | .6      | .2      | .1      |         |         |     | 3.4   | 12.6                  |
| NW                      | .6    | 1.0   | 1.1    | 1.5     | 1.0     | .7      | .1      |         |         |         |     | 8.0   | 12.4                  |
| NNW                     | .6    | 1.9   | 2.4    | 2.4     | 1.5     | .9      | .1      |         |         |         |     | 9.9   | 11.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 4.9   |                       |
|                         | 13.3  | 32.3  | 25.1   | 13.2    | 5.9     | 4.0     | .9      | .3      |         |         |     | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93027 STATION COLORADO SPRINGS COLO-PETERSON FH 43-68 YEARS JAN NORTH  
1200-1400 HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .3    | .7    | 1.1    | 1.7     | 1.5     | .9      | .1      |         |         |         |     | 6.2   | 14.3                  |
| NNE                     | .1    | .3    | .7     | .7      | .3      | .0      |         |         |         |         |     | 2.3   | 10.2                  |
| NE                      | .2    | .4    | .8     | .6      | .1      |         |         |         |         |         |     | 1.9   | 8.5                   |
| ENE                     | .3    | .8    | .7     | .3      | .1      |         |         |         |         |         |     | 2.2   | 7.7                   |
| E                       | .6    | 1.3   | 1.6    | .2      | .0      |         |         |         |         |         |     | 3.8   | 6.7                   |
| ESE                     | .8    | 2.4   | 3.5    | .6      | .0      |         |         |         |         |         |     | 7.4   | 7.1                   |
| SE                      | 1.1   | 4.5   | 7.2    | 2.7     | .3      |         |         |         |         |         |     | 15.5  | 8.0                   |
| SSE                     | .9    | 5.2   | 6.6    | 4.0     | .9      | .1      |         |         |         |         |     | 17.8  | 8.8                   |
| S                       | .8    | 2.9   | 5.0    | 2.4     | .6      | .0      |         |         |         |         |     | 11.8  | 8.8                   |
| SSW                     | .5    | 1.4   | 1.7    | .6      | .5      | .4      | .0      |         |         |         |     | 5.1   | 9.8                   |
| SW                      | .3    | .8    | .4     | .3      | .6      | .3      | .1      |         |         |         |     | 2.8   | 13.1                  |
| WSW                     | .3    | .2    | .3     | .4      | .3      | .3      | .2      | .0      | .0      |         |     | 2.2   | 15.5                  |
| W                       | .2    | .1    | .2     | .8      | .3      | .5      | .1      | .0      |         |         |     | 1.9   | 16.3                  |
| WNW                     | .3    | .5    | .1     | .7      | .8      | .7      | .4      | .1      | .1      |         |     | 3.8   | 18.0                  |
| NW                      | .2    | .3    | .8     | .9      | .5      | .9      | .1      |         |         |         |     | 6.3   | 16.8                  |
| NNW                     | .2    | .5    | 1.5    | 2.3     | 1.6     | 1.0     | .1      |         |         |         |     | 7.3   | 14.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 3.1   |                       |
|                         | 7.2   | 22.8  | 32.4   | 18.7    | 9.1     | 5.2     | 1.1     | .2      | .2      |         |     | 100.0 | 10.0                  |

TOTAL NUMBER OF OBSERVATIONS 2107

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FD  
STATION NAME

43-68  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | .6    | 2.7    | 2.1     | 1.5     | .4      | .1      |         |         |         |      | 8.3   | 12.8                  |
| NNE                     | .3    | 1.1   | 1.8    | 1.3     | .2      | .1      |         |         |         |         |      | 4.9   | 9.4                   |
| NE                      | .5    | 1.0   | 1.9    | .5      | .1      | .2      |         |         |         |         |      | 4.3   | 8.6                   |
| ENE                     | .7    | 1.0   | 1.4    | .4      | .1      |         |         |         |         |         |      | 3.6   | 6.9                   |
| E                       | .6    | 1.3   | 1.9    | .3      | .0      |         |         |         |         |         |      | 4.7   | 6.7                   |
| ESE                     | .6    | 2.7   | 2.9    | .4      | .1      |         |         |         |         |         |      | 6.2   | 7.1                   |
| SE                      | 1.2   | 4.3   | 7.1    | 1.7     | .2      |         |         |         |         |         |      | 14.6  | 7.6                   |
| SSE                     | .9    | 4.2   | 7.6    | 2.9     | .6      |         |         |         |         |         |      | 16.1  | 8.3                   |
| S                       | 1.0   | 2.1   | 4.0    | 1.5     | .3      | .0      | .0      |         |         |         |      | 9.2   | 8.6                   |
| SSW                     | .2    | 1.3   | 1.0    | .5      | .9      | .3      |         |         |         |         |      | 4.3   | 10.4                  |
| SW                      | .7    | .9    | .6     | .3      | .4      | .0      | .0      |         |         |         |      | 2.9   | 8.3                   |
| WSW                     | .1    | .3    | .1     | .5      | .3      | .3      | .0      |         |         |         |      | 1.8   | 13.4                  |
| W                       | .2    | .4    | .7     | .2      | .3      | .3      |         |         |         |         |      | 2.3   | 12.2                  |
| WNW                     | .2    | .3    | .2     | .7      | .9      | .3      | .1      | .0      | .0      |         |      | 2.8   | 15.4                  |
| NW                      | .3    | .7    | 1.4    | 1.6     | 1.2     | .5      | .0      |         |         |         |      | 5.7   | 12.8                  |
| NNW                     | .3    | .9    | 1.4    | 1.6     | 1.3     | .5      | .1      | .0      |         |         |      | 6.4   | 13.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.9   |                       |
|                         | 8.3   | 23.3  | 26.9   | 16.7    | 8.8     | 3.6     | .5      | .1      | .0      |         |      | 100.0 | 9.3                   |

TOTAL NUMBER OF OBSERVATIONS

2094

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS GOLD-PATERSON PD YEARS 43-68 MONTH JAN  
CLASS ALL WEATHER HOURS (L S T.) 1800-2000  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .9    | 4.1   | 6.5    | 2.3     | 1.2     | .1      | .0      |         |         |         |     | 15.4  | 8.9                   |
| NNE                     | .9    | 4.4   | 6.6    | 1.3     | .3      | .0      |         |         |         |         |     | 13.6  | 7.6                   |
| NE                      | .7    | 4.2   | 4.5    | .5      | .1      |         |         |         |         |         |     | 10.1  | 6.8                   |
| ENE                     | .7    | 2.1   | 1.8    | .8      | .0      |         |         |         |         |         |     | 5.4   | 6.9                   |
| E                       | .7    | 1.9   | 1.8    | .3      | .0      |         |         |         |         |         |     | 4.8   | 6.5                   |
| ESE                     | .6    | 1.9   | 2.1    | .4      | .0      | .0      |         |         |         |         |     | 5.1   | 7.0                   |
| SE                      | .9    | 2.4   | 2.4    | .8      |         |         |         |         |         |         |     | 6.5   | 6.9                   |
| SSE                     | .9    | 2.2   | 2.4    | .8      | .2      | .0      |         |         |         |         |     | 6.2   | 7.7                   |
| S                       | .3    | 1.3   | 1.7    | .5      | .3      | .0      |         |         |         |         |     | 4.2   | 8.3                   |
| SSW                     | .2    | 1.1   | .3     | .4      | .2      | .1      |         |         |         |         |     | 2.3   | 8.8                   |
| SW                      | .2    | .4    | .5     | .4      | .2      | .1      |         |         |         |         |     | 1.8   | 10.2                  |
| WSW                     | .2    | .3    | .5     | .1      | .2      | .0      |         |         |         |         |     | 1.4   | 9.5                   |
| W                       | .1    | .2    | .1     | .3      | .3      | .1      | .0      | .0      | .0      |         |     | 1.5   | 13.3                  |
| WNW                     | .2    | .6    | .9     | .6      | .4      | .1      | .1      | .0      |         |         |     | 3.0   | 11.5                  |
| NW                      | .4    | 1.0   | 1.2    | 1.2     | .8      | .2      | .1      |         |         |         |     | 5.2   | 11.3                  |
| NNW                     | .4    | 2.2   | 4.9    | 2.5     | 1.0     | .4      |         |         |         |         |     | 11.5  | 10.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                       |
|                         | 7.9   | 30.7  | 38.5   | 13.5    | 5.3     | 1.5     | .3      | .1      | .0      |         |     | 100.0 | 8.2                   |

TOTAL NUMBER OF OBSERVATIONS 2095

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 43-68 MONTH JAN  
CLASS ALL WEATHER HOURS (LST.) 2100-2300  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | 1.2   | 4.0   | 7.8    | 2.3     | .5      | .2      | .0      | .0      |         |         |     | 16.1  | 8.4                   |
| NNE                     | .6    | 5.5   | 10.4   | 1.0     | .0      | .0      |         |         |         |         |     | 17.6  | 7.4                   |
| NE                      | .8    | 4.4   | 4.5    | .5      | .1      |         |         |         |         |         |     | 10.3  | 6.9                   |
| ENE                     | .3    | 2.5   | 1.8    | .5      | .0      |         |         |         |         |         |     | 5.1   | 6.9                   |
| E                       | .5    | 2.1   | 1.4    | .3      | .0      |         |         |         |         |         |     | 4.3   | 6.3                   |
| ESE                     | .6    | 1.5   | 1.1    | .3      | .0      |         |         |         |         |         |     | 3.9   | 6.3                   |
| SE                      | .7    | 2.1   | 1.9    | .6      | .1      |         |         |         |         |         |     | 5.5   | 7.1                   |
| SSE                     | .3    | 1.1   | 1.9    | .7      | .2      | .0      |         |         |         |         |     | 4.3   | 8.6                   |
| S                       | .3    | .5    | .9     | .4      | .2      | .1      |         |         |         |         |     | 2.6   | 8.7                   |
| SSW                     | .2    | .8    | .5     | .3      | .1      |         |         |         |         |         |     | 2.0   | 7.7                   |
| SW                      | .0    | .4    | .5     | .2      | .2      | .1      | .1      |         |         |         |     | 1.5   | 11.7                  |
| WSW                     | .1    | .2    | .2     | .1      | .2      | .1      | .1      |         |         |         |     | 1.1   | 14.2                  |
| W                       | .1    | .5    | .5     | .1      | .2      | .2      | .1      | .0      |         |         |     | 1.9   | 12.4                  |
| WNW                     | .1    | .8    | 1.1    | .3      | .2      | .1      | .2      | .2      |         |         |     | 3.1   | 12.3                  |
| NW                      | .5    | 1.6   | 2.4    | 1.3     | .7      | .3      | .1      | .0      |         |         |     | 6.9   | 16.2                  |
| NNW                     | .5    | 3.0   | 4.1    | 2.5     | 1.1     | .2      | .2      | .0      |         |         |     | 11.7  | 10.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                       |
|                         | 6.8   | 31.8  | 41.1   | 11.4    | 4.0     | 1.5     | .9      | .3      | .0      |         |     | 100.0 | 8.2                   |

TOTAL NUMBER OF OBSERVATIONS 2094

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 43-68 MONTH JAN  
CLASS ALL WEATHER HOURS (L.S.T.) ALL  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .7    | 3.3   | 6.0    | 2.2     | .9      | .4      | .1      | .0      |         |         |     | 13.7  | 9.4                   |
| NNE                     | .6    | 3.7   | 6.3    | 1.1     | .3      | .1      |         |         |         |         |     | 12.0  | 7.8                   |
| NE                      | .6    | 3.1   | 3.6    | .5      | .1      | .0      |         |         |         |         |     | 7.7   | 7.0                   |
| ENE                     | .5    | 1.8   | 1.4    | .4      | .1      |         |         |         |         |         |     | 4.2   | 6.8                   |
| E                       | .6    | 1.8   | 1.5    | .4      | .1      | .0      |         |         |         |         |     | 4.3   | 6.6                   |
| ESE                     | .6    | 1.8   | 1.9    | .4      | .1      | .0      |         |         |         |         |     | 4.7   | 7.0                   |
| SE                      | .9    | 2.7   | 3.2    | .9      | .1      | .0      |         |         |         |         |     | 7.8   | 7.3                   |
| SSE                     | .6    | 2.4   | 3.4    | 1.4     | .3      | .1      |         |         |         |         |     | 8.2   | 8.3                   |
| S                       | .6    | 1.6   | 1.9    | .9      | .3      | .1      | .0      |         |         |         |     | 5.3   | 8.4                   |
| SSW                     | .3    | 1.0   | .7     | .5      | .3      | .2      | .0      | .0      |         |         |     | 3.0   | 9.5                   |
| SW                      | .4    | .7    | .4     | .3      | .3      | .1      | .0      | .0      |         |         |     | 2.3   | 9.6                   |
| WSW                     | .2    | .5    | .3     | .2      | .2      | .2      | .1      | .0      | .0      |         |     | 1.7   | 11.3                  |
| W                       | .2    | .3    | .4     | .2      | .3      | .2      | .1      | .0      | .0      |         |     | 1.9   | 12.0                  |
| WNW                     | .3    | .7    | .5     | .5      | .4      | .3      | .2      | .1      | .0      |         |     | 3.0   | 13.2                  |
| NW                      | .4    | 1.2   | 1.8    | 1.3     | .9      | .5      | .1      | .0      |         |         |     | 6.3   | 11.5                  |
| NNW                     | .4    | 1.7   | 3.8    | 2.7     | 1.3     | .6      | .1      | .0      |         |         |     | 10.6  | 11.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CAUM                    |       |       |        |         |         |         |         |         |         |         |     | 2.6   |                       |
|                         | 7.8   | 28.7  | 37.3   | 13.9    | 6.0     | 2.8     | .6      | .2      | .0      |         |     | 100.0 | 8.7                   |

TOTAL NUMBER OF OBSERVATIONS 16771

DATA PROCESSING DIVISION  
ETAG, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93027 STATION COLORADO SPRINGS COLO-PETERSON FO 43-68 YEARS FEB MONTH  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

| SPEED (KNTS) | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|--------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N            | .7    | 4.7   | 9.3    | 2.5     | .9      | .4      | .2      |         |         |         |      | 18.8  | 8.9             |
| NNE          | .8    | 5.8   | 8.8    | 1.3     | .5      | .2      |         |         |         |         |      | 17.3  | 7.7             |
| NE           | .3    | 4.6   | 3.7    | .4      | .2      | .1      |         |         |         |         |      | 9.3   | 6.8             |
| ENE          | .6    | 2.4   | 1.7    | .2      |         |         |         |         |         |         |      | 4.9   | 6.3             |
| E            | .5    | 1.9   | 1.6    | .2      |         |         |         |         |         |         |      | 4.2   | 6.3             |
| ESE          | .4    | 1.9   | 1.3    | .6      | .1      |         |         |         |         |         |      | 3.9   | 7.4             |
| SE           | .5    | 2.0   | 2.2    | .1      | .1      |         |         |         |         |         |      | 4.0   | 6.5             |
| SSE          | .2    | 1.6   | 2.1    | .3      | .1      |         |         |         |         |         |      | 4.3   | 7.3             |
| S            | .2    | 1.3   | 1.1    | .3      | .1      |         |         |         |         |         |      | 2.8   | 6.6             |
| SSW          | .4    | .6    | .6     | .3      | .2      |         |         |         |         |         |      | 2.1   | 7.4             |
| SW           | .2    | .3    | .4     | .2      | .1      |         |         | .1      |         |         |      | 1.4   | 9.1             |
| WSW          | .3    | .3    | .2     | .1      |         |         |         |         |         |         |      | 1.1   | 6.1             |
| W            | .7    | .2    | .3     |         |         |         | .1      |         |         |         |      | 1.4   | 7.1             |
| WNW          | .2    | 1.3   | .8     | .3      | .4      | .1      | .1      |         |         |         |      | 3.4   | 10.0            |
| NW           | .1    | 1.7   | 2.1    | 1.2     | .9      | .4      | .2      |         |         |         |      | 6.4   | 11.4            |
| NNW          | .3    | 2.3   | 3.7    | 3.0     | 1.6     | 1.1     | .2      | .1      |         |         |      | 12.2  | 12.1            |
| VARBL        |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM         |       |       |        |         |         |         |         |         |         |         |      | 1.7   |                 |
|              | 5.8   | 33.6  | 39.6   | 11.2    | 3.1     | 2.2     | .8      | .1      |         |         |      | 100.0 | 8.3             |

TOTAL NUMBER OF OBSERVATIONS 1899

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLD-PETERSON FD 43-68 YEARS FEB  
STATION NAME MONTH  
ALL WEATHER HOURS 0300-0500  
CLASS  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .7    | 4.7   | 8.9    | 3.3     | .9      | .5      | .1      |         |         |         |     | 19.0  | 9.1                   |
| NNE                     | .6    | 4.8   | 8.4    | 1.5     | .5      | .1      |         |         |         |         |     | 15.6  | 7.8                   |
| NE                      | .5    | 4.3   | 3.9    | 1.0     |         |         |         |         |         |         |     | 9.7   | 6.4                   |
| ENE                     | .9    | 2.2   | 1.0    | .2      | .2      | .1      |         |         |         |         |     | 4.0   | 7.0                   |
| E                       | .2    | 1.5   | 1.3    | .2      |         | .1      |         |         |         |         |     | 3.2   | 6.8                   |
| ESE                     | .2    | 1.3   | 1.1    | .2      |         | .1      |         |         |         |         |     | 2.9   | 6.8                   |
| SE                      | .5    | 1.9   | .9     | .3      | .1      |         |         |         |         |         |     | 3.6   | 6.0                   |
| SSE                     | .4    | 2.1   | 1.3    | .3      | .1      |         |         |         |         |         |     | 4.3   | 6.6                   |
| S                       | .1    | 1.0   | .6     | .5      | .1      |         |         |         |         |         |     | 2.3   | 8.3                   |
| SSW                     | .3    | .5    | .4     | .2      | .2      | .1      |         |         |         |         |     | 1.7   | 3.9                   |
| SW                      | .4    | .7    | .3     | .2      |         |         |         |         |         |         |     | 1.6   | 5.8                   |
| WSW                     | .3    | .7    | .2     | .1      | .2      |         |         | .1      |         |         |     | 1.4   | 7.9                   |
| W                       | .4    | .6    | .6     | .3      | .2      |         |         |         |         |         |     | 2.1   | 7.8                   |
| WNW                     | .1    | 1.0   | .7     | .5      | .4      | .3      | .1      | .1      |         |         |     | 3.1   | 12.2                  |
| NW                      | .3    | 1.9   | 2.5    | 1.1     | .9      | .9      | .1      |         |         |         |     | 7.6   | 11.4                  |
| NNW                     | .6    | 3.3   | 3.2    | 4.1     | 1.2     | .6      | .4      | .1      |         |         |     | 15.4  | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.2   |                       |
|                         | 5.7   | 32.6  | 37.3   | 13.9    | 4.9     | 2.5     | .5      | .2      |         |         |     | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 1895

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLG-PETERSON FD YEARS 43-68 MONTH FEB  
CLASS ALL WEATHER HOURS (LST) 0600-0800  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 6.3   | 6.7    | 2.5     | 1.0     | .5      |         |         |         |         |     | 17.5  | 8.7                   |
| NNE                     | .5    | 4.9   | 6.4    | .7      | .2      | .2      |         |         |         |         |     | 12.8  | 7.3                   |
| NE                      | .9    | 4.1   | 3.3    | .3      | .2      |         |         |         |         |         |     | 8.9   | 6.6                   |
| ENE                     | .3    | 2.4   | 1.1    | .4      | .3      | .1      |         |         |         |         |     | 4.7   | 7.2                   |
| E                       | .4    | 1.5   | 1.5    | .2      | .1      | .1      |         |         |         |         |     | 3.4   | 7.0                   |
| ESE                     | .5    | 1.5   | 1.7    | .5      | .2      | .1      |         |         |         |         |     | 4.4   | 8.0                   |
| SE                      | .4    | 1.9   | 1.4    | .5      | .1      |         |         |         |         |         |     | 4.2   | 6.8                   |
| SSE                     | .3    | 1.9   | 1.2    | .6      | .2      | .1      |         |         |         |         |     | 4.3   | 7.7                   |
| S                       | .1    | 1.2   | .5     | .3      | .1      | .1      |         |         |         |         |     | 2.3   | 8.1                   |
| SSW                     | .2    | .9    | .3     | .2      | .2      |         |         |         |         |         |     | 1.8   | 7.4                   |
| SW                      | .1    | 1.0   | .4     | .1      | .2      |         |         |         |         |         |     | 1.8   | 7.3                   |
| WSW                     | .2    | .7    | .1     | .1      | .1      |         |         |         |         |         |     | 1.1   | 6.2                   |
| W                       | .3    | .7    | .3     | .2      | .2      | .2      | .1      |         |         |         |     | 1.7   | 9.2                   |
| WNW                     | .7    | 1.3   | .8     | .6      | .6      | .4      | .1      | .1      |         |         |     | 4.2   | 11.4                  |
| NW                      | .5    | 2.3   | 2.3    | 1.6     | 1.1     | .4      | .1      |         |         |         |     | 8.4   | 10.2                  |
| NNW                     | .5    | 3.3   | 5.6    | 3.4     | 1.3     | 1.1     | .3      | .1      |         |         |     | 15.8  | 11.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.7   |                       |
|                         | 6.4   | 35.9  | 33.3   | 12.0    | 5.9     | 3.1     | .5      | .1      |         |         |     | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 1918

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS FEB MONTH  
0900-1100 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                        | .5    | 1.2   | 1.7    | 1.8     | 1.1     | .8      | .2      |         |         |         |      | 7.6   | 12.4                  |
| NNE                      | .2    | 1.4   | 1.0    | .6      | .5      | .2      |         |         |         |         |      | 4.4   | 8.6                   |
| NE                       | .4    | 1.4   | .5     | .4      | .1      | .1      |         |         |         |         |      | 2.8   | 7.1                   |
| ENE                      | .4    | .8    | .6     | .1      | .2      |         |         |         |         |         |      | 2.0   | 6.7                   |
| E                        | .5    | 1.5   | 1.1    | .2      | .1      | .2      |         |         |         |         |      | 3.6   | 7.2                   |
| ESE                      | 1.0   | 1.9   | 2.0    | .4      | .2      | .2      |         |         |         |         |      | 5.7   | 7.4                   |
| SE                       | 1.0   | 4.9   | 4.3    | 1.4     | .1      |         |         |         |         |         |      | 12.3  | 6.7                   |
| SSE                      | 1.4   | 3.5   | 5.1    | 1.8     | .8      | .1      |         |         |         |         |      | 12.7  | 8.1                   |
| S                        | 1.2   | 3.7   | 3.2    | 1.2     | .5      | .3      |         |         |         |         |      | 10.1  | 6.0                   |
| SSW                      | 1.0   | 1.8   | 2.1    | 1.0     | .2      | .1      |         |         |         |         |      | 6.2   | 7.8                   |
| SW                       | .9    | 1.1   | .9     | .5      | .1      | .2      | .1      | .1      |         |         |      | 3.8   | 6.8                   |
| WSW                      | .3    | 1.0   | .4     | .2      | .2      | .2      | .1      |         |         |         |      | 2.3   | 9.1                   |
| W                        | .7    | .6    | .2     | .2      | .4      | .2      | .3      | .1      |         |         |      | 2.5   | 12.6                  |
| WNW                      | .3    | 1.4   | .4     | .8      | .8      | .5      |         |         |         |         |      | 4.1   | 12.0                  |
| NW                       | .3    | 1.2   | 1.1    | 1.4     | 1.0     | .6      | .1      | .1      |         |         |      | 5.7   | 12.2                  |
| NNW                      | .0    | 1.2   | 1.8    | 2.3     | 2.2     | 1.5     | .3      | .1      |         |         |      | 10.0  | 14.4                  |
| VARBL                    |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                     |       |       |        |         |         |         |         |         |         |         |      | 4.1   |                       |
|                          | 11.7  | 29.0  | 20.4   | 14.1    | 8.4     | 5.0     | 1.0     | .3      |         |         |      | 100.0 | 9.8                   |

TOTAL NUMBER OF OBSERVATIONS 1923

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-66 FEB  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
HOURS (LST)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .2    | .5    | .3     | 2.0     | 1.3     | 1.3     | .2      | .1      |         |         |     | 5.8   | 16.6                  |
| NNE                     | .2    | .2    | .9     | .9      | .7      | .3      |         |         |         |         |     | 3.5   | 13.3                  |
| NE                      | .2    | .5    | .7     | .5      | .2      |         |         |         |         |         |     | 2.0   | 9.5                   |
| ENE                     | .3    | .9    | .4     | .2      | .1      | .1      |         |         |         |         |     | 1.9   | 7.6                   |
| E                       | .3    | 1.3   | .9     | .2      | .1      | 1       | .1      |         |         |         |     | 3.0   | 7.4                   |
| ESE                     | .4    | 2.9   | 2.7    | .7      | .2      |         |         |         |         |         |     | 6.9   | 7.4                   |
| SE                      | .5    | 4.2   | 6.4    | 3.2     | .2      | .1      |         |         |         |         |     | 14.9  | 8.2                   |
| SSE                     | .9    | 3.6   | 8.2    | 4.4     | 1.3     | .3      |         |         |         |         |     | 18.8  | 9.6                   |
| S                       | .5    | 3.6   | 5.0    | 2.3     | .9      | .2      |         |         |         |         |     | 12.4  | 9.1                   |
| SSW                     | .2    | 1.3   | 1.6    | .9      | .4      | .4      | .2      |         |         |         |     | 5.0   | 10.9                  |
| SW                      | .3    | .9    | .5     | .7      | .3      | .4      | .4      | .1      |         |         |     | 3.7   | 13.2                  |
| WSW                     |       | .6    | .4     | .5      | .4      | .3      | .1      | .1      |         |         |     | 2.3   | 13.7                  |
| W                       | .3    | .2    | .1     | .3      | .3      | .4      | .2      |         |         |         |     | 1.7   | 15.6                  |
| WNW                     | .2    | .4    | .5     | 1.2     | 1.1     | 1.3     | .5      |         |         |         |     | 5.0   | 17.3                  |
| NW                      | .1    | .4    | .6     | 1.2     | .8      | .5      | .3      |         |         |         |     | 3.4   | 15.2                  |
| NNW                     | .1    | .4    | 1.2    | 2.4     | 1.6     | 1.7     | .7      |         |         |         |     | 7.9   | 17.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.4   |                       |
|                         | 4.8   | 21.9  | 30.6   | 21.5    | 9.7     | 7.4     | 2.6     | .2      |         |         |     | 100.0 | 11.1                  |

TOTAL NUMBER OF OBSERVATIONS 1912

DATA PROCESSING DIVISION  
ETAC, USAF  
AS-12VILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037  
STATION

COLORADO SPRINGS GOLD-PETERSON FD  
STATION NAME

43-68  
YEARS

FEB

NORTH

1300-1700

HOURS (LST.)

ALL WEATHER  
CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | .3    | 1.2    | 2.0     | 1.9     | .8      | .1      |         |         |         |      | 6.6   | 14.6                  |
| NNE                     | .2    | .7    | 1.3    | 1.8     | .9      | .4      |         |         |         |         |      | 3.4   | 12.3                  |
| NE                      | .1    | .8    | 1.0    | .8      | .2      | .1      |         |         |         |         |      | 3.0   | 9.7                   |
| ENE                     | .1    | .9    | 1.0    | .4      | .1      |         |         |         |         |         |      | 2.9   | 8.1                   |
| E                       | .1    | 1.3   | 1.0    | .5      | .1      |         |         |         |         |         |      | 3.3   | 7.3                   |
| ESE                     | .4    | 1.4   | 2.3    | .8      | .3      | .1      | .1      | .1      |         |         |      | 5.1   | 8.7                   |
| SE                      | .4    | 4.3   | 7.2    | 3.2     | .5      |         |         |         |         |         |      | 15.5  | 8.9                   |
| SSE                     | .0    | 3.7   | 7.8    | 4.1     | 2.1     | .1      |         |         |         |         |      | 18.1  | 9.8                   |
| S                       | .4    | 1.7   | 4.7    | 1.8     | .7      |         |         |         |         |         |      | 9.3   | 9.2                   |
| SSW                     | .5    | 1.4   | 1.8    | .8      | .3      | .2      |         |         |         |         |      | 4.7   | 9.1                   |
| SW                      | .3    | .8    | 1.1    | 1.6     | .3      | .3      | .1      |         |         |         |      | 4.0   | 11.0                  |
| WSW                     | .1    | .7    | .3     | 1.0     | .3      | .6      | .1      |         |         |         |      | 2.8   | 12.0                  |
| W                       | .1    | .2    | .4     | .3      | .3      | .4      | .1      |         |         |         |      | 1.7   | 15.2                  |
| WNW                     |       | .3    | .7     | .8      | 1.4     | 1.1     | .3      |         |         |         |      | 4.7   | 17.5                  |
| NW                      | .1    | .3    | .8     | 1.4     | .9      | .4      |         | .1      |         |         |      | 3.9   | 14.7                  |
| NNW                     | .1    | .8    | 1.6    | 2.8     | 1.5     | .8      | .4      | .1      |         |         |      | 7.9   | 14.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | 1.2   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |       |                       |
|                         | 3.7   | 19.7  | 34.2   | 23.4    | 11.7    | 4.9     | 1.0     | .2      |         |         |      | 100.0 | 10.9                  |

TOTAL NUMBER OF OBSERVATIONS

1911

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS GOLD-PETERSON FD 43-66 YEARS FEB NORTH 1800-2000 HOURS (LST.)

ALL WEATHER CLASS CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .1    | 2.8   | 4.8    | 2.6     | .9      | .1      |         |         |         |         |     | 11.6  | 9.0             |
| NNE               | .3    | 3.5   | 4.5    | 1.7     | .7      | .3      |         |         |         |         |     | 11.2  | 8.5             |
| NE                | .9    | 3.2   | 2.3    | .8      | .2      |         |         |         |         |         |     | 6.9   | 7.2             |
| ENE               | .2    | 2.2   | 2.0    | .3      | .1      |         |         |         |         |         |     | 4.7   | 5.8             |
| E                 | .3    | 2.0   | 1.5    | .9      |         | .1      |         |         |         |         |     | 4.2   | 7.0             |
| ESE               | .4    | 2.2   | 2.5    | .5      | .1      | .1      |         |         |         |         |     | 5.7   | 7.3             |
| SE                | .4    | 2.7   | 4.8    | 1.3     | .2      |         |         |         |         |         |     | 9.4   | 7.9             |
| SSE               | .8    | 2.4   | 4.8    | 1.8     | .2      |         |         |         |         |         |     | 9.6   | 8.2             |
| S                 | .4    | 2.3   | 1.5    | .9      | .2      | .1      |         |         |         |         |     | 4.8   | 7.3             |
| SSW               | .9    | .8    | 1.0    | .8      | .2      | .1      |         |         |         |         |     | 3.3   | 9.2             |
| SW                | .1    | .2    | .2     | .4      | .2      |         |         |         |         |         |     | 1.3   | 9.1             |
| WSW               | .2    | .2    | .2     | .9      | .2      |         |         |         |         |         |     | 1.1   | 10.7            |
| W                 | .2    | .9    | .4     | .9      | .3      |         |         |         |         |         |     | 1.6   | 10.4            |
| WNW               | .2    | .7    | 1.1    | .7      | .8      | .3      | .1      |         |         |         |     | 3.8   | 12.0            |
| NW                | .2    | 1.6   | 2.5    | 1.6     | .5      | .5      | .1      | .1      |         |         |     | 7.0   | 11.0            |
| NNW               | .3    | 2.3   | 3.6    | 3.5     | 1.9     | .5      | .2      |         |         |         |     | 12.3  | 11.5            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | 1.5   |                 |
|                   | 5.7   | 29.7  | 37.4   | 17.0    | 6.4     | 2.0     | .4      | .1      |         |         |     | 100.0 | 8.8             |

TOTAL NUMBER OF OBSERVATIONS 1897

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLDRADG SPRINGS COLD-PETERSON FD 43-68 FEB  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
2100-2300  
HOURS (LST)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | 1.0   | 3.8   | 0.4    | 1.9     | 1.1     | .2      | .1      |         |         |         |     | 14.4  | 6.7                   |
| NNE                     | .5    | 5.0   | 7.9    | 1.1     | .4      | .2      |         |         |         |         |     | 15.0  | 7.8                   |
| NE                      | 1.0   | 4.8   | 3.8    | .5      | .1      |         |         |         |         |         |     | 9.8   | 6.5                   |
| ENE                     | .6    | 1.9   | 1.0    | .4      |         |         |         |         |         |         |     | 4.7   | 6.7                   |
| E                       | .4    | 3.0   | 1.5    | .3      |         | .1      |         |         |         |         |     | 5.2   | 6.3                   |
| ESE                     | .5    | 1.8   | 1.7    | .4      | .3      | .1      |         |         |         |         |     | 4.5   | 7.3                   |
| SE                      | .5    | 3.1   | 2.6    | .5      |         |         |         |         |         |         |     | 6.4   | 6.5                   |
| SSE                     | .6    | 1.6   | 2.3    | .4      | .2      |         |         |         |         |         |     | 5.1   | 7.4                   |
| S                       | .5    | 1.3   | 1.1    | .2      | .2      |         |         |         |         |         |     | 3.0   | 7.3                   |
| SSW                     | .2    | .6    | .4     | .3      | .2      |         |         |         |         |         |     | 1.7   | 6.4                   |
| SW                      | .2    | .6    | .5     | .5      | .1      |         |         |         |         |         |     | 1.9   | 8.5                   |
| WSW                     | .2    | .4    | .3     | .1      | .1      | .1      |         |         |         |         |     | 1.1   | 8.1                   |
| W                       | .2    | .7    | .5     | .2      | .2      |         |         |         | .1      |         |     | 1.8   | 8.6                   |
| WNW                     | .1    | .5    | .8     | .5      | .4      | .5      | .2      | .2      |         |         |     | 3.2   | 14.4                  |
| NW                      | .5    | 1.6   | 2.1    | 1.2     | .6      | .1      | .2      |         |         |         |     | 6.2   | 9.6                   |
| NNW                     | .5    | 2.2   | 5.6    | 3.0     | 1.6     | 1.0     | .5      |         |         |         |     | 14.1  | 11.4                  |
| VARB.                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                       |
|                         | 7.2   | 32.5  | 39.2   | 10.9    | 5.2     | 2.1     | .6      | .2      | .1      |         |     | 100.0 | 8.2                   |

TOTAL NUMBER OF OBSERVATIONS 1900

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-66

STATION STATION NAME YEARS

ALL WEATHER

CLASS

CONDITION

FEB

MOUTH

ALL

HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 3.1   | 4.9    | 2.3     | 1.1     | .6      | .1      | .0      |         |         |     | 12.7  | 9.7                   |
| NNE                     | .5    | 3.3   | 4.9    | 1.2     | .5      | .2      |         |         |         |         |     | 10.6  | 8.4                   |
| NE                      | .5    | 2.9   | 2.4    | .6      | .1      | .0      |         |         |         |         |     | 6.5   | 7.0                   |
| ENE                     | .4    | 1.7   | 1.2    | .3      | .1      | .0      |         |         |         |         |     | 3.7   | 6.9                   |
| E                       | .3    | 1.3   | 1.3    | .3      | .0      | .1      | .0      |         |         |         |     | 3.8   | 6.9                   |
| ESE                     | .5    | 1.8   | 1.9    | .5      | .2      | .1      | .0      | .0      |         |         |     | 4.9   | 7.6                   |
| SE                      | .6    | 3.1   | 3.7    | 1.3     | .1      | .0      |         |         |         |         |     | 8.9   | 7.6                   |
| SSE                     | .7    | 2.6   | 4.0    | 1.7     | .6      | .1      |         |         |         |         |     | 9.7   | 8.7                   |
| S                       | .4    | 2.0   | 2.2    | .9      | .3      | .1      |         |         |         |         |     | 5.9   | 8.4                   |
| SSW                     | .4    | 1.0   | 1.0    | .6      | .2      | .1      | .0      |         |         |         |     | 3.3   | 8.9                   |
| SW                      | .3    | .8    | .6     | .5      | .2      | .1      | .1      | .0      |         |         |     | 2.5   | 9.7                   |
| WSW                     | .2    | .6    | .2     | .3      | .2      | .1      | .0      | .0      |         |         |     | 1.5   | 9.9                   |
| W                       | .3    | .5    | .3     | .2      | .2      | .1      | .1      | .0      | .0      |         |     | 1.8   | 10.9                  |
| WNW                     | .2    | .8    | .7     | .7      | .7      | .6      | .2      | .0      |         |         |     | 3.9   | 13.6                  |
| NW                      | .2    | 1.4   | 1.8    | 1.3     | .8      | .5      | .1      | .0      |         |         |     | 6.1   | 11.6                  |
| NNW                     | .4    | 2.0   | 3.5    | 3.0     | 1.6     | 1.0     | .3      | .0      |         |         |     | 12.0  | 12.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                       |
|                         | 6.4   | 29.4  | 34.7   | 15.5    | 7.2     | 3.6     | .9      | .2      | .0      |         |     | 100.0 | 9.1                   |

TOTAL NUMBER OF OBSERVATIONS 15246

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-68 1AR  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0000-0200  
HOURS (L S T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 3.1   | 6.5    | 2.5     | .9      | .4      |         |         |         |         |     | 14.0  | 9.3                   |
| NNE                     | .6    | 5.4   | 5.7    | 1.7     | .6      | .1      | .0      |         |         |         |     | 14.1  | 7.9                   |
| NE                      | .8    | 3.5   | 3.5    | .5      | .1      | .1      |         |         |         |         |     | 8.5   | 6.9                   |
| ENE                     | .4    | 3.5   | 1.8    | .2      | .0      |         |         |         |         |         |     | 5.9   | 6.0                   |
| E                       | .6    | 2.0   | 1.7    | .1      |         |         |         |         |         |         |     | 4.7   | 6.1                   |
| ESE                     | .3    | 2.1   | 2.5    | .2      | .2      | .1      |         |         |         |         |     | 5.4   | 7.5                   |
| SE                      | 1.0   | 2.1   | 3.1    | .4      | .1      |         |         |         |         |         |     | 6.7   | 6.8                   |
| SSE                     | .5    | 1.5   | 3.0    | 1.0     | .1      |         |         |         |         |         |     | 6.2   | 7.9                   |
| S                       | .2    | 1.3   | 1.3    | .8      | .3      |         |         |         |         |         |     | 3.9   | 8.6                   |
| SSW                     | .2    | .5    | .7     | .3      | .4      | .1      | .0      |         |         |         |     | 2.2   | 10.9                  |
| SW                      | .0    | .4    | .2     | .1      | .2      | .0      |         |         |         |         |     | 1.0   | 10.2                  |
| WSW                     | .2    | .3    | .3     | .2      | .3      | .1      | .0      |         |         |         |     | 1.5   | 10.8                  |
| W                       | .1    | .6    | .4     | .2      | .1      | .1      | .0      |         |         |         |     | 1.6   | 9.6                   |
| WNW                     | .3    | .7    | .5     | .4      | .4      | .4      | .4      |         |         |         |     | 3.2   | 13.7                  |
| NW                      | .3    | 1.3   | 1.9    | 1.1     | 1.0     | .5      | .2      | .0      |         |         |     | 6.4   | 11.8                  |
| NNW                     | .4    | 2.1   | 4.4    | 3.2     | 1.9     | 1.2     | .2      |         |         |         |     | 13.3  | 12.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.5   |                       |
|                         | 6.7   | 30.5  | 37.5   | 12.9    | 6.8     | 3.1     | 1.0     | .0      |         |         |     | 100.0 | 8.8                   |

TOTAL NUMBER OF OBSERVATIONS 2080

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

73037 COLORADO SPRINGS COLC-PETERSON FD 43-68 MAR  
STATION NAME CLASS HOURS (L.S.T.)  
ALL WEATHER  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .7    | 3.6   | 6.1    | 3.0     | .9      | .3      |         | .0      |         |         |     | 14.6  | 9.3                   |
| NNE                     | .6    | 4.6   | 6.5    | 1.8     | .7      | .1      |         |         |         |         |     | 14.3  | 8.7                   |
| NE                      | .7    | 4.3   | 4.4    | .2      | .1      |         |         |         |         |         |     | 9.6   | 6.6                   |
| ENE                     | .6    | 2.7   | 1.6    | .1      | .1      |         |         |         |         |         |     | 5.1   | 6.1                   |
| E                       | .8    | 1.8   | 1.1    | .0      | .1      |         |         |         |         |         |     | 3.6   | 5.8                   |
| ESE                     | .3    | 1.7   | 1.3    | .4      |         | .0      |         |         |         |         |     | 3.8   | 5.3                   |
| SE                      | .4    | 1.7   | 1.4    | .6      | .1      |         |         |         |         |         |     | 4.3   | 7.2                   |
| SSE                     | .8    | 1.3   | 1.7    | 1.2     |         |         |         |         |         |         |     | 5.3   | 7.6                   |
| S                       | .2    | .7    | 1.1    | .3      | .2      |         |         |         |         |         |     | 2.7   | 7.9                   |
| SSW                     | .3    | .7    | .5     | .6      | .3      |         |         |         |         |         |     | 2.4   | 8.8                   |
| SW                      | .2    | .7    | .1     | .3      |         | .2      |         |         |         |         |     | 1.6   | 8.8                   |
| WSW                     | .2    | .3    | .5     | .1      | .1      | .2      |         | .0      |         |         |     | 1.5   | 11.2                  |
| W                       | .3    | .2    | .0     | .3      | .1      | .1      | .2      | .0      |         |         |     | 1.9   | 12.5                  |
| WNW                     | .3    | .7    | 1.2    | .3      | .5      | .5      | .2      |         | .1      |         |     | 4.1   | 12.1                  |
| NW                      | .3    | 1.6   | 1.8    | 1.2     | .8      | .5      | .1      |         |         |         |     | 8.3   | 10.9                  |
| NNW                     | .3    | 3.2   | 4.2    | 4.2     | 3.0     | 1.2     | .3      | .1      |         |         |     | 15.6  | 12.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.0   |                       |
|                         | 7.4   | 30.3  | 34.0   | 14.6    | 7.1     | 3.3     | .8      | .2      | .1      |         |     | 100.0 | 8.9                   |

TOTAL NUMBER OF OBSERVATIONS 2082

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FO YEARS 43-08 MONTH MAR  
CLASS ALL WEATHER HOURS (LST) 0600-0800  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .5    | 3.4   | 5.1    | 2.1     | 1.3     | .2      | .1      |         |         |         |     | 13.1  | 9.4                   |
| NNE                     | .5    | 4.2   | 3.8    | 1.4     | .5      | .0      |         |         |         |         |     | 10.4  | 7.7                   |
| NE                      | .4    | 4.3   | 2.0    | .5      | .2      | .0      |         |         |         |         |     | 8.0   | 6.3                   |
| ENE                     | .9    | 2.2   | 1.2    | .3      | .0      |         |         |         |         |         |     | 4.6   | 5.4                   |
| E                       | .9    | 2.1   | .9     | .2      | .0      |         |         |         |         |         |     | 4.1   | 5.7                   |
| ESE                     | .4    | 2.3   | 1.3    | .3      | .1      |         |         |         |         |         |     | 4.5   | 6.6                   |
| SE                      | .0    | 2.2   | 1.9    | .7      | .1      | .0      | .0      |         |         |         |     | 5.5   | 7.4                   |
| SSE                     | .3    | 1.4   | 1.6    | .6      | .3      | .0      |         |         |         |         |     | 4.7   | 8.0                   |
| S                       | .8    | 1.4   | 1.4    | .7      | .1      | .0      |         |         |         |         |     | 4.5   | 7.5                   |
| SSW                     | .5    | .8    | .3     | .4      | .3      | .0      |         |         |         |         |     | 2.4   | 8.2                   |
| SW                      | .0    | .9    | .2     | .2      | .1      |         |         |         |         |         |     | 2.1   | 6.1                   |
| WSW                     | .3    | .5    | .2     | .2      | .0      | .0      | .2      | .1      |         |         |     | 1.7   | 11.9                  |
| W                       | .5    | 1.0   | .3     | .3      | .2      | .2      | .1      |         |         |         |     | 2.6   | 9.1                   |
| WNW                     | .6    | 1.4   | .8     | .5      | .8      | .2      | .1      | .2      | .1      | .0      |     | 4.8   | 12.3                  |
| NW                      | .7    | 2.1   | 2.3    | 1.0     | .8      | .7      | .1      | .0      | .0      |         |     | 7.8   | 11.0                  |
| NNW                     | .8    | 3.7   | 4.0    | 3.4     | 2.7     | 1.2     | .4      |         |         |         |     | 16.1  | 11.8                  |
| VARRL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 3.2   |                       |
|                         | 10.1  | 34.3  | 27.3   | 12.9    | 7.7     | 2.9     | 1.1     | .3      | .2      | .0      |     | 100.0 | 8.6                   |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037

COLORADO SPRINGS COLO-PETERSON FD

43-68

MAR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0900-1100

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | .0    | 1.0    | 1.9     | 1.9     | 1.2     | .0      | .0      | .0      |         |      | 7.0   | 14.0                  |
| NNE                     | .3    | 1.0   | 1.3    | .7      | .4      | .1      | .0      |         |         |         |      | 3.7   | 10.0                  |
| NE                      | .6    | .0    | .5     | .4      | .2      |         |         |         |         |         |      | 2.1   | 9.1                   |
| ENE                     | .4    | .9    | .9     | .2      |         |         | .0      |         |         |         |      | 2.5   | 8.1                   |
| E                       | .0    | 1.7   | 1.3    | .3      |         |         |         |         |         |         |      | 4.1   | 6.2                   |
| ESE                     | .9    | 2.5   | 2.3    | .0      | .2      | .0      | .0      |         |         |         |      | 6.8   | 7.3                   |
| SE                      | 1.1   | 3.7   | 3.0    | 1.6     | .6      | .0      |         |         |         |         |      | 12.3  | 7.0                   |
| SSE                     | 1.3   | 4.7   | 3.4    | 3.1     | .8      | .1      |         |         |         |         |      | 16.0  | 6.3                   |
| S                       | .7    | 2.1   | 3.4    | 1.7     | .7      | .2      |         |         |         |         |      | 9.0   | 9.0                   |
| SSW                     | .7    | 1.3   | 2.3    | .7      | .5      | .4      | .1      | .0      |         |         |      | 7.1   | 9.0                   |
| SW                      | .3    | 1.0   | .9     | .7      | .7      | .5      | .2      |         |         |         |      | 4.2   | 11.1                  |
| WSW                     | .1    | .0    | .0     | .7      | .2      | .4      | .0      |         |         |         |      | 2.7   | 11.2                  |
| W                       | .4    | .1    | .3     | .4      | .6      | .4      | .1      |         |         |         |      | 2.0   | 14.3                  |
| WNW                     | .2    | .7    | .0     | .7      | .7      | .7      | .3      | .1      | .1      | .1      |      | 4.3   | 17.4                  |
| NW                      | .2    | .9    | 1.0    | 1.1     | 1.1     | .7      | .2      | .1      |         |         |      | 5.3   | 15.6                  |
| NNW                     | .4    | .5    | 1.1    | 1.7     | 2.2     | 1.3     | .5      | .2      |         |         |      | 8.4   | 10.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.5   |                       |
|                         | 9.0   | 23.4  | 29.9   | 16.0    | 9.8     | 6.8     | 1.6     | .6      | .2      | .1      |      | 102.0 | 10.4                  |

TOTAL NUMBER OF OBSERVATIONS

2108

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-66 YEARS MAR MONTH 1200-1400 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .0    | .6    | .8     | 1.4     | 1.9     | 1.1     | .3      | .0      |         |         |     | 5.1   | 15.8            |
| NNE               | .1    | .6    | .6     | 1.1     | 1.1     | .5      |         |         |         |         |     | 4.1   | 13.7            |
| NE                | .2    | .8    | .9     | .7      | .3      | .0      |         |         |         |         |     | 2.9   | 9.6             |
| ENE               | .1    | .8    | .7     | .3      | .1      | .0      |         |         |         |         |     | 2.1   | 5.4             |
| E                 | .3    | .9    | 1.4    | .2      |         | .0      |         |         |         |         |     | 2.8   | 7.3             |
| ESE               | .2    | 1.6   | 2.4    | .8      | .2      |         |         |         |         |         |     | 5.1   | 8.1             |
| SE                | .2    | 2.9   | 5.5    | 2.8     | .5      | .0      |         |         |         |         |     | 12.0  | 9.0             |
| SSE               | .0    | 2.9   | 5.1    | 7.1     | 2.0     | .4      | .0      |         |         |         |     | 10.3  | 11.1            |
| S                 | .6    | 2.3   | 3.6    | 2.7     | 1.5     | .4      |         |         |         |         |     | 10.9  | 10.7            |
| SSW               | .5    | 1.4   | 2.6    | 1.2     | 1.0     | 1.1     | .2      | .0      |         |         |     | 8.1   | 12.3            |
| SW                | .3    | .6    | 1.0    | .7      | .9      | .3      | .3      |         |         |         |     | 4.1   | 13.1            |
| WSW               | .0    | .5    | .9     | .6      | .8      | .6      | .1      |         |         |         |     | 3.2   | 15.1            |
| W                 | .2    | .3    | .5     | .2      | .5      | .6      | .2      | .1      |         |         |     | 2.7   | 16.3            |
| WNW               | .0    | .4    | .5     | .8      | 1.2     | 1.3     | .3      | .3      |         |         |     | 4.8   | 19.2            |
| NW                | .1    | .2    | .5     | .7      | .9      | 1.0     | .6      | .0      |         |         |     | 4.1   | 18.5            |
| NNW               | .0    | .6    | 1.3    | 1.4     | 2.0     | 1.5     | .7      | .0      | .0      |         |     | 7.6   | 17.5            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | .9    |                 |
|                   | 3.5   | 17.2  | 28.1   | 22.8    | 14.9    | 9.1     | 2.9     | .6      | .0      |         |     | 100.0 | 17.4            |

TOTAL NUMBER OF OBSERVATIONS 2104

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLDRAOD SPRINGS COLD-PETERSON FD YEARS 43-68 MONTH MAR  
CLASS ALL WEATHER HOURS (LST) 1500-1700  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .0    | .5    | 1.3    | 2.3     | 2.6     | 1.1     | .1      | .0      |         |         |      | 8.0   | 15.6                  |
| NNE                     | .1    | .6    | 1.7    | 1.5     | .9      | .3      |         |         |         |         |      | 5.2   | 12.2                  |
| NE                      | .1    | .6    | 1.0    | .9      | .6      | .0      | .1      |         |         |         |      | 3.2   | 11.5                  |
| ENE                     | .1    | .9    | .9     | .2      | .1      |         | .0      |         |         |         |      | 2.3   | 8.5                   |
| E                       | .1    | .9    | 1.1    | .2      | .0      |         |         |         |         |         |      | 2.7   | 7.2                   |
| ESE                     | .0    | .7    | 1.3    | .7      | .3      |         |         |         |         |         |      | 3.2   | 9.7                   |
| SE                      | .2    | 1.2   | 4.6    | 3.4     | 1.0     | .0      |         |         |         |         |      | 10.5  | 10.7                  |
| SSE                     | .5    | 1.6   | 4.7    | 6.5     | 2.3     | .1      |         |         |         |         |      | 15.8  | 11.6                  |
| S                       | .2    | 1.3   | 3.6    | 3.8     | 1.4     | .3      | .0      |         |         |         |      | 10.6  | 11.7                  |
| SSW                     | .1    | 1.2   | 2.1    | 1.4     | 1.3     | .6      | .3      | .0      |         |         |      | 7.2   | 13.3                  |
| SW                      | .3    | .8    | 1.0    | 1.3     | 1.0     | .4      | .1      |         |         |         |      | 5.0   | 12.7                  |
| WSW                     | .1    | .1    | 1.2    | 1.1     | .6      | .2      | .1      |         |         |         |      | 3.5   | 13.0                  |
| W                       | .0    | .3    | .9     | .9      | .9      | .5      | .1      |         |         |         |      | 3.6   | 14.5                  |
| WNW                     | .1    | .2    | .6     | 1.9     | 1.6     | 1.0     | .5      | .0      |         |         |      | 5.8   | 17.4                  |
| NW                      | .1    | .6    | 1.1    | 1.1     | 1.2     | .8      | .1      | .0      |         |         |      | 5.1   | 14.9                  |
| NNW                     | .1    | .6    | 1.2    | 2.0     | 2.0     | 1.2     | .4      | .1      |         |         |      | 7.7   | 15.8                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0   |                       |
|                         | 2.3   | 12.3  | 28.4   | 29.3    | 17.7    | 6.7     | 2.0     | .3      |         |         |      | 100.0 | 12.7                  |

TOTAL NUMBER OF OBSERVATIONS 2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS GOLD-PETERSON FD 43-68 YEARS 4AR  
STATION NAME NORTH  
ALL WEATHER 1800-2000  
CLASS HOURS (LST)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .3    | 1.5   | 3.4    | 2.7     | 1.4     | .1      | .1      |         |         |         |     | 9.9   | 10.9                  |
| NNE                     | .2    | 1.0   | 2.5    | 1.7     | .5      | .3      |         |         |         |         |     | 6.8   | 10.0                  |
| NE                      | .5    | 1.9   | 3.3    | 1.2     | .2      | .0      |         |         |         |         |     | 7.0   | 8.1                   |
| ENE                     | .2    | 1.4   | 1.4    | .7      | .0      |         |         |         |         |         |     | 3.8   | 7.8                   |
| E                       | .1    | 1.9   | 1.9    | .3      | .0      |         |         |         |         |         |     | 4.2   | 7.1                   |
| ESE                     | .5    | 2.0   | 2.5    | .6      | .0      | .0      |         |         |         |         |     | 6.0   | 7.4                   |
| SE                      | .4    | 2.5   | 5.3    | 1.5     | .1      |         |         |         |         |         |     | 10.1  | 7.9                   |
| SSE                     | .6    | 2.4   | 5.8    | 1.9     | .2      |         |         |         |         |         |     | 10.9  | 8.4                   |
| S                       | .2    | 1.5   | 2.7    | 1.4     | .2      | .1      |         |         |         |         |     | 6.2   | 9.1                   |
| SSW                     | .1    | .9    | 1.2    | .7      | .7      | .0      |         |         |         |         |     | 3.7   | 10.2                  |
| SW                      | .4    | .3    | .5     | .5      | .3      |         | .0      |         |         |         |     | 2.3   | 9.7                   |
| WSW                     | .1    | .6    | 1.1    | .3      | .3      |         |         |         |         |         |     | 2.3   | 9.4                   |
| W                       | .1    | .6    | .8     | .4      | .2      | .1      | .1      |         |         |         |     | 2.4   | 10.9                  |
| WNW                     | .2    | .6    | 1.3    | .9      | .6      | .2      | .1      | .0      |         |         |     | 4.0   | 12.0                  |
| NW                      | .2    | 1.3   | 2.2    | 2.5     | .9      | .3      |         |         |         |         |     | 7.7   | 11.1                  |
| NNW                     | .1    | 1.7   | 3.9    | 3.3     | 1.2     | 1.1     | .1      | .0      |         |         |     | 11.4  | 12.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.2   |                       |
|                         | 4.5   | 23.5  | 40.2   | 28.6    | 7.0     | 2.4     | .4      | .1      |         |         |     | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS 2073

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS MAR MONTH  
2100-2300 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|--------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| DIR.         |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| N            | .7    | 3.0   | 5.2    | 2.6     | .8      | .3      | .0      |         |         |         |      | 12.7  | 9.3             |
| NNE          | .5    | 4.3   | 4.7    | 1.4     | .6      | .1      | .0      |         |         |         |      | 11.5  | 8.3             |
| NE           | .4    | 4.4   | 2.7    | .4      | .2      |         |         |         |         |         |      | 8.1   | 6.8             |
| ENE          | .3    | 2.5   | 1.7    | .3      | .1      |         |         |         |         |         |      | 4.9   | 6.6             |
| E            | .5    | 2.4   | 1.5    | .2      | .1      | .1      |         |         |         |         |      | 4.9   | 6.8             |
| ESE          | .3    | 2.7   | 1.7    | .5      | .1      | .1      |         |         |         |         |      | 5.4   | 7.2             |
| SE           | .6    | 2.6   | 3.2    | 1.3     | .0      |         |         |         |         |         |      | 7.7   | 7.4             |
| SSE          | .4    | 2.1   | 3.9    | 1.3     | .2      |         |         |         |         |         |      | 7.9   | 8.6             |
| S            | .4    | 1.3   | 1.4    | .9      | .1      |         |         |         |         |         |      | 4.2   | 8.1             |
| SSW          | .4    | .6    | .9     | .7      | .3      |         |         |         |         |         |      | 3.0   | 9.5             |
| SW           | .1    | .6    | .4     | .0      | .1      | .2      |         |         |         |         |      | 1.7   | 9.1             |
| WSW          | .2    | .4    | .2     | .1      | .4      |         |         |         |         |         |      | 1.3   | 10.1            |
| W            | .2    | .4    | .3     | .3      | .1      |         |         |         |         |         |      | 1.3   | 8.5             |
| WNW          | .4    | .6    | 1.1    | .5      | .4      | .2      | .1      |         | .0      |         |      | 3.7   | 10.9            |
| NW           | .2    | 1.4   | 2.9    | 1.4     | .7      | .6      | .1      |         |         |         |      | 7.3   | 11.3            |
| NNW          | .2    | 1.3   | 5.0    | 3.0     | 2.0     | .9      | .2      | .0      |         |         |      | 12.7  | 12.1            |
| VARBL        |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM         |       |       |        |         |         |         |         |         |         |         |      | 1.6   |                 |
|              | 6.0   | 30.8  | 37.0   | 14.7    | 6.5     | 2.6     | .5      | .0      | .0      |         |      | 100.0 | 8.8             |

TOTAL NUMBER OF OBSERVATIONS 2077

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS MAR  
STATION NAME CLASS MONTH  
ALL WEATHER ALL  
CONDITION BOOKS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 2.0   | 3.7    | 2.3     | 1.4     | .6      | .1      | .0      | .0      |         |      | 10.7  | 11.1                  |
| NNE                     | .4    | 2.8   | 3.3    | 1.4     | .7      | .2      | .0      |         |         |         |      | 2.8   | 9.0                   |
| NE                      | .5    | 2.3   | 2.3    | .6      | .3      | .0      | .0      |         |         |         |      | 6.2   | 7.5                   |
| ENE                     | .4    | 1.9   | 1.3    | .3      | .1      | .0      | .0      |         |         |         |      | 3.9   | 6.7                   |
| E                       | .5    | 1.7   | 1.4    | .2      | .0      | .0      |         |         |         |         |      | 3.8   | 6.5                   |
| ESE                     | .4    | 2.0   | 2.0    | .3      | .1      | .0      | .0      |         |         |         |      | 5.0   | 7.5                   |
| SE                      | .6    | 2.3   | 3.9    | 1.5     | .3      | .6      | .0      |         |         |         |      | 8.6   | 8.3                   |
| SSE                     | .6    | 2.3   | 4.0    | 2.9     | .7      | .1      | .0      |         |         |         |      | 10.7  | 9.5                   |
| S                       | .4    | 1.5   | 2.3    | 1.3     | .6      | .1      | .0      |         |         |         |      | 6.3   | 9.6                   |
| SSW                     | .4    | 1.0   | 1.3    | .8      | .6      | .3      | .1      | .0      |         |         |      | 4.5   | 10.9                  |
| SW                      | .3    | .7    | .5     | .5      | .4      | .2      | .1      |         |         |         |      | 2.7   | 10.9                  |
| WSW                     | .2    | .4    | .6     | .4      | .3      | .2      | .1      | .0      |         |         |      | 2.2   | 12.0                  |
| W                       | .2    | .5    | .5     | .4      | .3      | .3      | .1      | .0      |         |         |      | 2.3   | 12.5                  |
| WNW                     | .3    | .7    | .8     | .7      | .8      | .5      | .2      | .1      | .1      | .0      |      | 4.3   | 14.7                  |
| NW                      | .3    | 1.2   | 1.7    | 1.3     | .9      | .7      | .2      | .0      | .0      |         |      | 6.3   | 12.7                  |
| NNW                     | .3    | 1.7   | 3.1    | 2.8     | 2.1     | 1.2     | .4      | .1      | .0      |         |      | 11.7  | 13.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.7   |                       |
|                         | 6.2   | 25.3  | 32.8   | 18.0    | 9.7     | 4.6     | 1.3     | .3      | .1      | .0      |      | 100.0 | 10.0                  |

TOTAL NUMBER OF OBSERVATIONS 16727

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47, 49-68 YEARS APR NORTH  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                    | .5    | 3.3   | 7.8    | 2.7     | 1.4     | .3      | .1      |         |         |         |      | 16.1  | 9.7             |
| NNE                  | .7    | 4.5   | 6.3    | 1.2     | .2      | .1      |         |         |         |         |      | 13.1  | 7.6             |
| NE                   | 1.0   | 4.2   | 3.8    | .3      | .2      | .1      |         |         |         |         |      | 9.8   | 6.7             |
| ENE                  | .5    | 1.9   | 1.9    | .3      |         |         |         |         |         |         |      | 4.5   | 6.6             |
| E                    | .5    | 2.4   | 1.7    | .3      | .2      | .1      |         |         |         |         |      | 5.1   | 6.8             |
| ESE                  | .3    | 1.4   | 1.7    | .4      | .2      |         |         |         |         |         |      | 3.9   | 7.4             |
| SE                   | .5    | 1.9   | 3.6    | .9      | .2      |         |         |         |         |         |      | 7.0   | 7.9             |
| SSE                  | .2    | 1.4   | 2.3    | 1.2     | .4      |         |         |         |         |         |      | 5.5   | 9.2             |
| S                    | .2    | 1.1   | 1.1    | .7      | .1      |         |         |         |         |         |      | 3.2   | 8.0             |
| SSW                  |       | .7    | .3     | .7      | .3      | .1      | .1      |         |         |         |      | 2.1   | 11.8            |
| SW                   | .2    | .5    | .6     | .4      | .9      | .1      |         |         |         |         |      | 2.1   | 10.5            |
| WSW                  | .1    | .4    | .4     | .3      | .1      |         |         |         |         |         |      | 1.1   | 9.0             |
| W                    | .1    | .5    | .3     | .2      | .1      | .1      | .1      |         |         |         |      | 1.3   | 10.4            |
| WNW                  | .1    | .8    | .8     | .7      | .4      | .3      | .1      |         |         |         |      | 2.1   | 11.4            |
| NW                   | .3    | 1.5   | 2.0    | 1.2     | .7      | .7      | .1      |         |         |         |      | 6.5   | 11.3            |
| NNW                  | .4    | 2.5   | 5.1    | 3.4     | 1.7     | .8      | .3      | .2      |         |         |      | 14.2  | 11.6            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |      | 1.3   |                 |
|                      | 5.4   | 29.0  | 39.6   | 13.0    | 6.3     | 2.6     | .5      | .2      |         |         |      | 100.0 | 8.9             |

TOTAL NUMBER OF OBSERVATION 1937

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47,49-68 YEARS APR MONTH 0300-0500 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .5    | 4.6   | 8.0    | 2.8     | 1.4     | .4      |         | .1      |         |         |     | 17.9  | 9.5             |
| NNE               | .5    | 4.1   | 7.8    | 1.2     | .5      | .1      |         |         |         |         |     | 12.1  | 7.9             |
| NE                | .4    | 4.3   | 4.0    | .7      | .1      | .1      |         |         |         |         |     | 9.4   | 7.1             |
| ENE               | .1    | 2.1   | 1.4    | .3      | .1      |         |         |         |         |         |     | 3.9   | 6.6             |
| E                 | .3    | 1.4   | 1.4    | .3      | .1      |         |         |         |         |         |     | 3.5   | 7.1             |
| ESE               | .2    | 1.3   | 1.5    | .5      | .1      |         |         |         |         |         |     | 3.8   | 7.6             |
| SE                | .4    | 1.8   | 3.0    | 1.4     | .2      |         |         |         |         |         |     | 6.8   | 8.5             |
| SSE               | .4    | 1.2   | 2.2    | 1.1     | .2      |         |         |         |         |         |     | 5.0   | 8.5             |
| S                 | .1    | .7    | 1.0    | .5      | .1      |         |         |         |         |         |     | 2.4   | 8.5             |
| SSW               | .2    | .5    | .4     | .5      | .2      | .1      |         |         |         |         |     | 1.9   | 9.7             |
| SW                | .2    | .5    | .2     | .3      | .4      | .1      |         |         |         |         |     | 1.5   | 11.2            |
| WSW               | .2    | .6    | .4     | .4      | .1      |         |         |         |         |         |     | 1.6   | 8.6             |
| W                 | .2    | .6    | .2     | .1      | .1      | .1      |         |         |         |         |     | 1.2   | 8.3             |
| WNW               | .2    | 1.1   | .4     | .4      | .4      | .5      | .2      | .1      |         |         |     | 3.1   | 12.9            |
| NW                | .6    | 1.5   | 2.5    | 1.7     | .3      | .4      |         |         |         |         |     | 7.0   | 9.8             |
| NNW               | .3    | 3.3   | 3.8    | 3.6     | 1.3     | 1.3     | .2      | .1      |         |         |     | 15.7  | 11.1            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | 1.3   |                 |
|                   | 4.6   | 29.5  | 40.1   | 15.7    | 5.4     | 2.7     | .4      | .2      |         |         |     | 100.0 | 8.9             |

TOTAL NUMBER OF OBSERVATIONS 1938

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLDRAID SPRINGS COLD-PETERSON FD 43-47, 49-68 YEARS APR MONTH 0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | 1.4   | 2.7   | 4.9    | 2.7     | 1.4     | .7      | .1      | .1      |         |         |     | 14.2  | 10.1            |
| NNE               | .9    | 3.3   | 2.6    | 1.2     | .5      | .1      | .1      |         |         |         |     | 8.6   | 8.0             |
| NE                | .6    | 2.4   | 2.0    | .5      | .1      |         |         |         |         |         |     | 5.5   | 6.8             |
| ENE               | .4    | 1.6   | 1.1    | .4      | .3      | .1      |         |         |         |         |     | 3.9   | 7.6             |
| E                 | .8    | 2.0   | 1.4    | .4      |         |         |         |         |         |         |     | 4.5   | 6.1             |
| ESE               | .6    | 1.5   | 1.2    | .3      | .1      | .2      |         |         |         |         |     | 3.9   | 7.3             |
| SE                | 1.2   | 2.0   | 3.2    | 1.1     | .1      |         |         |         |         |         |     | 7.7   | 7.5             |
| SSE               | 1.0   | 2.0   | 2.5    | 1.9     | .8      | .1      |         |         |         |         |     | 8.2   | 9.1             |
| S                 | .9    | 2.1   | 2.0    | 1.3     | .3      | .2      |         |         |         |         |     | 6.6   | 8.3             |
| SSW               | .8    | .9    | .7     | .9      | .3      | .1      | .1      |         |         |         |     | 3.7   | 8.9             |
| SW                | .4    | .9    | .4     | .2      | .2      |         | .1      |         |         |         |     | 2.1   | 7.7             |
| WSW               | .4    | .7    | .2     | .2      | .1      |         |         |         |         |         |     | 1.5   | 6.9             |
| W                 | .4    | .9    | .3     | .2      | .1      | .1      |         |         |         |         |     | 2.0   | 7.4             |
| WNW               | .8    | 1.2   | .4     | .5      | .3      | .3      | .1      | .1      |         |         |     | 3.7   | 10.0            |
| NW                | .8    | 1.8   | 2.3    | 1.4     | .6      | .5      | .1      |         |         |         |     | 7.5   | 8.9             |
| NNW               | .8    | 2.7   | 3.3    | 2.5     | 2.1     | 1.2     | .2      | .2      |         |         |     | 13.0  | 12.1            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | 3.5   |                 |
|                   | 12.2  | 28.8  | 28.6   | 15.6    | 7.1     | 3.4     | .6      | .3      |         |         |     | 100.0 | 8.6             |

TOTAL NUMBER OF OBSERVATIONS 1942

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLG-PETERSON FD 43-47,49-60 APR MONTH 0900-1100 HOURS (L S T.)

STATION NAME CLASS ALL WEATHER CONDITION

| SPEED (KNTS) | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|--------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| DIR.         |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| N            | .1    | .6    | 1.2    | 2.2     | 2.1     | .9      | .3      |         |         |         |     | 7.5   | 15.2            |
| NNE          | .2    | .8    | .9     | 1.2     | .9      | .1      | .1      |         |         |         |     | 4.2   | 12.2            |
| NE           | .1    | .5    | 1.1    | .6      | .3      | .1      |         |         |         |         |     | 2.6   | 10.2            |
| ENE          | .5    | 1.0   | 1.0    | .5      | .2      | .1      |         |         |         |         |     | 3.1   | 7.9             |
| E            | .5    | .7    | 1.2    | .3      | .1      | .1      |         |         |         |         |     | 2.9   | 7.6             |
| ESE          | .4    | 1.3   | 2.1    | .4      | .2      | .1      | .1      |         |         |         |     | 4.4   | 8.1             |
| SE           | .9    | 2.4   | 5.5    | 2.2     | .5      |         |         |         |         |         |     | 11.5  | 8.5             |
| SSE          | .7    | 3.4   | 7.0    | 5.7     | 2.1     | .5      |         |         |         |         |     | 19.3  | 10.7            |
| S            | .8    | 2.7   | 4.2    | 3.0     | 1.8     | .2      | .1      |         |         |         |     | 12.8  | 10.2            |
| SSW          | .6    | 2.0   | 2.9    | 1.4     | 1.1     | .4      | .2      | .1      |         |         |     | 8.7   | 10.8            |
| SW           | .4    | 1.0   | 1.3    | .4      | .2      | .2      | .1      | .1      |         |         |     | 3.6   | 9.5             |
| WSW          | .3    | .6    | .3     | .6      | .1      | .2      |         |         |         |         |     | 2.1   | 9.8             |
| W            | .2    | .4    | .5     | .2      |         | .4      |         |         |         |         |     | 1.8   | 11.5            |
| WNW          | .1    | .5    | .5     | .7      | .5      | .7      | .1      | .1      |         |         |     | 3.1   | 15.2            |
| NW           | .3    | .3    | .4     | .4      | .6      | .5      | .1      |         |         |         |     | 2.6   | 14.4            |
| NNW          | .1    | .4    | 1.7    | 1.7     | 1.5     | 1.5     | .6      | .1      |         |         |     | 7.6   | 16.6            |
| VARBL        |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM         |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                 |
|              | 6.0   | 18.9  | 31.9   | 21.7    | 11.9    | 5.7     | 1.5     | .2      |         |         |     | 100.0 | 10.9            |

TOTAL NUMBER OF OBSERVATIONS 1939

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 43-47, 49-68 MONTH APR  
CLASS ALL WEATHER HOURS (LST) 1200-1400  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .4    | .3    | 1.2    | 1.3     | 1.5     | 1.2     | .5      | .1      |         |         |     | 6.4   | 16.2                  |
| NNE                     | .1    | .5    | 1.3    | .8      | .9      | .4      | .1      |         |         |         |     | 3.9   | 13.2                  |
| NE                      | .3    | .2    | .9     | 1.4     | .1      | .1      |         |         |         |         |     | 2.9   | 11.0                  |
| ENE                     |       | .5    | .9     | .7      | .2      | .1      |         |         |         |         |     | 2.3   | 10.8                  |
| E                       | .2    | .9    | .7     | .5      | .1      | .1      | .1      |         |         |         |     | 2.4   | 9.0                   |
| ESE                     | .3    | 1.0   | 2.3    | .7      | .2      | .1      |         |         |         |         |     | 4.6   | 8.7                   |
| SE                      | .4    | 1.2   | 3.8    | 3.0     | .6      | .1      |         |         |         |         |     | 9.1   | 10.4                  |
| SSE                     | .3    | 2.1   | 4.9    | 6.3     | 3.7     | .9      |         |         |         |         |     | 18.4  | 12.7                  |
| S                       | .1    | 1.3   | 4.4    | 4.4     | 2.7     | .8      | .1      |         |         |         |     | 13.8  | 12.8                  |
| SSW                     | .1    | 1.1   | 2.6    | 2.1     | 1.4     | .9      | .1      |         |         |         |     | 8.2   | 12.8                  |
| SW                      | .3    | 1.0   | .8     | 1.1     | 1.0     | .9      | .3      | .1      | .1      |         |     | 5.6   | 14.8                  |
| WSW                     |       | .3    | .5     | 1.5     | .5      | .4      |         |         |         |         |     | 3.1   | 14.2                  |
| W                       | .1    | .2    | .5     | .9      | .6      | .4      |         |         |         |         |     | 2.6   | 15.1                  |
| WNW                     | .1    | .3    | .3     | 1.4     | .6      | .9      | .6      |         |         |         |     | 4.1   | 16.1                  |
| NW                      | .1    | .9    | .8     | .8      | 1.1     | .6      | .1      |         |         |         |     | 3.9   | 14.3                  |
| NNW                     | .2    | .4    | 1.3    | 1.9     | 1.7     | 1.9     | .3      |         |         |         |     | 8.1   | 16.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     | .8    |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     |       |                       |
|                         | 2.7   | 11.7  | 27.2   | 29.0    | 16.7    | 9.6     | 2.2     | .1      | .1      |         |     | 100.0 | 13.1                  |

TOTAL NUMBER OF OBSERVATIONS 1944

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47, 49-68 YEARS APR MONTH 1500-1700 HOURS (LST)

ALL WEATHER

CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                    | .1    | .5    | 1.0    | 1.8     | 2.4     | .9      | .4      | .1      |         |         |      | 7.0   | 16.5            |
| NNE                  | .1    | .3    | 1.3    | 1.6     | .7      | .2      | .1      |         |         |         |      | 4.3   | 12.8            |
| NE                   | .1    | .8    | 1.1    | 2.0     | .5      | .1      |         |         |         |         |      | 4.6   | 11.5            |
| ENE                  | .1    | .6    | 1.0    | .7      | .5      |         |         |         |         |         |      | 2.8   | 10.3            |
| E                    | .2    | .5    | 1.4    | .5      | .2      |         |         |         |         |         |      | 2.7   | 9.0             |
| ESE                  | .1    | .7    | 1.2    | 1.1     | .5      | .1      |         |         |         |         |      | 3.5   | 10.6            |
| SE                   | .3    | 1.1   | 3.1    | 3.8     | 1.2     | .1      |         |         |         |         |      | 9.5   | 11.4            |
| SSE                  | .1    | .9    | 3.6    | 5.8     | 3.0     | .4      |         |         |         |         |      | 13.8  | 13.0            |
| S                    | .2    | 1.3   | 3.0    | 3.9     | 2.2     | .4      |         |         |         |         |      | 11.4  | 12.4            |
| SSW                  | .2    | .9    | 2.1    | 1.8     | 2.0     | .8      | .1      |         |         |         |      | 7.9   | 13.5            |
| SW                   | .1    | .3    | 1.4    | 1.8     | 1.6     | .8      | .2      | .1      |         |         |      | 6.3   | 13.3            |
| WSW                  | .2    | .5    | .8     | .8      | 1.1     | .4      | .1      |         | .1      |         |      | 3.9   | 14.2            |
| W                    | .1    | .3    | .5     | .9      | .8      | .3      |         |         |         |         |      | 2.9   | 14.1            |
| WNW                  | .2    | .6    | .6     | 1.3     | 1.2     | 1.3     | .2      | .1      |         |         |      | 5.3   | 16.2            |
| NW                   | .2    | .6    | .8     | 1.6     | 1.0     | .8      | .1      |         |         |         |      | 3.1   | 14.6            |
| NNW                  | .1    | .3    | 1.7    | 2.5     | 2.0     | 1.3     | .5      |         |         |         |      | 8.4   | 15.9            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |      | .6    |                 |
|                      | 2.0   | 10.2  | 24.7   | 31.6    | 21.3    | 7.7     | 1.6     | .2      | .1      |         |      | 100.0 | 13.4            |

TOTAL NUMBER OF OBSERVATIONS 1932

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND 'DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS GOLD-PETERSON FD 32-47.49-66 YEARS APR MONTH 1800-2000 MOUPE (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 14 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .3    | .8    | 3.1    | 2.7     | 1.5     | .5      |         |         |         |         |     | 8.8   | 11.3            |
| NNE                  | .1    | 1.0   | 2.4    | 1.8     | .8      | .3      | .1      |         |         |         |     | 8.4   | 11.2            |
| NE                   | .2    | 1.3   | 3.0    | 1.1     | .3      | .1      |         |         |         |         |     | 5.8   | 8.9             |
| ENE                  | .2    | 1.3   | 1.9    | .7      | .2      | .1      |         |         |         |         |     | 4.3   | 8.4             |
| E                    | .4    | 1.3   | 1.7    | .5      | .4      |         |         |         |         |         |     | 4.2   | 8.2             |
| ESE                  | .1    | 1.2   | 3.1    | 1.1     | .2      | .1      |         |         |         |         |     | 5.8   | 8.7             |
| SE                   | .3    | 1.4   | 4.5    | 2.8     | .4      | .1      |         |         |         |         |     | 9.4   | 9.7             |
| SSE                  | .5    | 1.5   | 5.0    | 2.3     | .7      | .2      |         | .1      |         |         |     | 10.1  | 9.6             |
| S                    | .1    | 2.2   | 3.7    | 1.3     | .2      |         |         |         |         |         |     | 7.6   | 8.4             |
| SSW                  | .2    | 1.0   | 1.5    | 1.5     | .5      | .1      |         |         |         |         |     | 4.8   | 10.3            |
| SW                   | .3    | 1.0   | .9     | 1.1     | .5      | .3      | .1      |         |         |         |     | 4.1   | 11.1            |
| WSW                  | .2    | .5    | .5     | .5      | .1      |         |         |         |         |         |     | 1.8   | 9.0             |
| W                    | .1    | .3    | .7     | .3      | .1      | .1      |         |         |         |         |     | 1.8   | 9.8             |
| WNW                  | .1    | 1.1   | 1.1    | .5      | .6      | .7      | .1      |         |         |         |     | 4.4   | 12.5            |
| NW                   | .1    | 1.3   | 3.0    | 1.6     | 1.3     | .6      | .1      |         |         |         |     | 8.0   | 11.9            |
| NNW                  | .2    | 1.2   | 4.2    | 3.6     | 1.2     | 1.0     | .2      |         |         |         |     | 11.5  | 12.2            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 1.1   |                 |
|                      | 3.2   | 18.6  | 40.3   | 23.7    | 8.6     | 3.8     | .5      | .1      |         |         |     | 100.0 | 10.2            |

TOTAL NUMBER OF OBSERVATIONS 1939

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS GOLD-PETERSON FD 43-47, 49-68 YEARS APR MONTH 2100-2300 HOURS (LST.)

CLASS ALL WEATHER

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .7    | 2.5   | 6.3    | 2.8     | 1.4     | .5      | .1      |         |         |         |      | 14.3  | 10.1                  |
| NNE                     | .6    | 3.4   | 4.3    | 1.2     | .4      | .2      |         |         |         |         |      | 10.0  | 8.0                   |
| NE                      | .4    | 2.8   | 3.1    | .9      | .3      |         |         |         |         |         |      | 7.4   | 7.7                   |
| ENE                     | .4    | 1.8   | 2.0    | .3      | .1      |         |         |         |         |         |      | 4.5   | 7.0                   |
| E                       | .8    | 2.0   | 1.7    | .4      |         |         |         |         |         |         |      | 4.8   | 6.2                   |
| ESE                     | .4    | 2.3   | 2.2    | .6      | .4      |         |         |         |         |         |      | 5.8   | 7.4                   |
| SE                      | .7    | 2.7   | 3.0    | 1.4     | .4      | .1      |         |         |         |         |      | 8.3   | 8.1                   |
| SSE                     | .2    | 2.2   | 3.2    | 1.6     | .4      |         |         |         |         |         |      | 7.5   | 8.7                   |
| S                       | .6    | 1.2   | 2.1    | .7      | .2      | .1      |         |         |         |         |      | 4.8   | 7.9                   |
| SSW                     | .2    | .9    | .8     | .6      | .3      |         |         |         |         |         |      | 2.8   | 8.9                   |
| SW                      | .2    | .6    | .6     | .5      | .4      |         | .1      |         |         |         |      | 2.3   | 10.0                  |
| WSW                     | .1    | .2    | .4     | .4      | .1      | .1      | .1      |         |         |         |      | 1.2   | 11.8                  |
| W                       | .3    | .3    | .5     | .2      |         | .2      |         |         |         |         |      | 1.3   | 8.3                   |
| WNW                     |       | .7    | .6     | .2      | .4      | .2      | .1      |         |         |         |      | 2.1   | 11.1                  |
| NW                      | .4    | 2.0   | 2.5    | 1.4     | .9      | .5      | .1      |         |         |         |      | 7.8   | 10.5                  |
| NNW                     | .3    | 1.9   | 4.8    | 3.8     | 1.7     | 1.3     | .2      |         |         |         |      | 14.1  | 12.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .9    |                       |
|                         | 5.9   | 27.7  | 38.1   | 16.8    | 7.2     | 2.9     | .5      |         |         |         |      | 100.0 | 9.1                   |

TOTAL NUMBER OF OBSERVATIONS 1947

DATA PROCESSING DIVISION  
ETAG, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47, 47-68 YEARS APR NORTH  
STATION NAME CLASS ALL MOVES (L S T.)  
ALL WEATHER  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 2.0   | 4.2    | 2.4     | 1.6     | .7      | .2      | .0      |         |         |      | 11.5  | 11.4                  |
| NNE                     | .4    | 2.2   | 3.4    | 1.3     | .6      | .2      | .0      |         |         |         |      | 8.1   | 9.1                   |
| NE                      | .4    | 2.0   | 2.4    | .9      | .2      | .1      |         |         |         |         |      | 6.0   | 6.1                   |
| ENE                     | .3    | 1.4   | 1.4    | .5      | .2      | .0      |         |         |         |         |      | 3.7   | 7.9                   |
| E                       | .5    | 1.4   | 1.4    | .4      | .1      | .0      | .0      |         |         |         |      | 3.8   | 7.3                   |
| ESE                     | .3    | 1.4   | .9     | .6      | .2      | .1      | .0      |         |         |         |      | 4.5   | 8.3                   |
| SE                      | .6    | 1.8   | 3.7    | 2.1     | .4      | .0      |         |         |         |         |      | 8.7   | 9.1                   |
| SSE                     | .4    | 1.8   | 3.8    | 3.3     | 1.4     | .2      |         | .0      |         |         |      | 11.0  | 10.8                  |
| S                       | .4    | 1.6   | 2.7    | 2.0     | 1.0     | .2      | .0      |         |         |         |      | 7.8   | 10.4                  |
| SSW                     | .3    | 1.0   | 1.4    | 1.2     | .8      | .3      | .1      | .0      |         |         |      | 3.0   | 11.4                  |
| SW                      | .2    | .7    | .8     | .7      | .6      | .3      | .1      | .0      | .0      |         |      | 3.4   | 12.2                  |
| WSW                     | .2    | .5    | .4     | .6      | .3      | .1      | .0      |         | .0      |         |      | 2.0   | 11.3                  |
| W                       | .2    | .5    | .4     | .4      | .2      | .2      | .0      |         |         |         |      | 1.9   | 11.2                  |
| WNW                     | .2    | .8    | .6     | .7      | .5      | .6      | .2      | .0      |         |         |      | 3.6   | 13.8                  |
| NW                      | .3    | 1.2   | 1.8    | 1.3     | .8      | .6      | .1      |         |         |         |      | 6.0   | 11.6                  |
| NNW                     | .3    | 1.6   | 3.5    | 2.9     | 1.6     | 1.3     | .3      | .1      |         |         |      | 11.6  | 13.0                  |
| VAREL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.5   |                       |
|                         | 5.2   | 21.8  | 33.8   | 21.1    | 10.6    | 4.8     | 1.0     | .2      | .0      |         |      | 100.0 | 10.4                  |

TOTAL NUMBER OF OBSERVATIONS 13518

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47, 49-68 YEARS  
ALL WEATHER  
0600-0200 HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .4    | 3.4   | 5.9    | 3.1     | .8      | .5      | .1      |         |         |         |     | 14.2  | 9.9                   |
| NNE                     | .6    | 4.7   | 6.1    | 1.1     | .5      |         | .1      |         |         |         |     | 13.0  | 7.7                   |
| NE                      | .5    | 5.2   | 3.4    | .6      | .2      | .1      |         |         |         |         |     | 9.9   | 6.9                   |
| ENE                     | .4    | 2.5   | 1.4    | .3      | .1      | .1      |         |         |         |         |     | 4.6   | 6.6                   |
| E                       | .3    | 1.8   | 2.4    | .4      |         |         |         |         |         |         |     | 4.8   | 7.1                   |
| ESE                     | .5    | 2.1   | 2.1    | .5      |         | .1      |         |         |         |         |     | 5.2   | 7.1                   |
| SE                      | .3    | 1.6   | 3.4    | 1.1     | .2      |         |         |         |         |         |     | 6.7   | 8.4                   |
| SSE                     | .4    | 1.2   | 2.1    | 1.2     | .1      | .1      |         |         |         |         |     | 5.0   | 8.9                   |
| S                       | .4    | .7    | 1.1    | .3      | .3      |         |         |         |         |         |     | 2.7   | 8.5                   |
| SSW                     | .2    | 1.0   | .8     | .7      | .1      |         |         |         |         |         |     | 2.7   | 8.5                   |
| SW                      | .2    | .8    | .3     | .2      | .1      | .1      | .1      |         |         |         |     | 1.4   | 8.9                   |
| WSW                     | .1    | .7    | .2     | .1      |         |         | .1      |         |         |         |     | 1.1   | 8.4                   |
| W                       | .1    | .6    | .4     | .1      |         |         |         |         |         |         |     | 1.0   | 6.5                   |
| WNW                     | .1    | 1.2   | 1.2    | .4      | .1      |         |         |         |         |         |     | 2.8   | 7.3                   |
| NW                      | .5    | 1.7   | 2.7    | 1.6     | .9      | .3      | .1      |         |         |         |     | 7.8   | 10.1                  |
| NNW                     | .3    | 2.4   | 5.7    | 4.3     | 2.1     | .6      | .2      |         |         |         |     | 15.5  | 11.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.7   |                       |
|                         | 4.9   | 31.5  | 38.7   | 15.6    | 3.3     | 1.8     | .5      |         |         |         |     | 100.0 | 8.6                   |

TOTAL NUMBER OF OBSERVATIONS 1993

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION CULORADW SPRINGS COLO-PETERSON FD 43-47, 49-68 YEARS MAY MONTH 0300-0500 HOUR (LST)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .8    | 4.3   | 6.9    | 3.3     | 1.0     | .5      | .1      |         |         |         |     | 10.0  | 7.3             |
| NNE                  | .8    | 4.6   | 7.6    | 1.0     | .3      |         | .1      |         |         |         |     | 14.5  | 7.9             |
| NE                   | .7    | 4.9   | 3.6    | .4      | .2      |         |         |         |         |         |     | 9.8   | 6.5             |
| ENE                  | .4    | 2.3   | 1.5    | .2      | .1      |         |         |         |         |         |     | 4.3   | 6.3             |
| E                    | .6    | 1.9   | .9     | .3      | .1      |         |         |         |         |         |     | 3.6   | 6.3             |
| ESE                  | .4    | 1.1   | 1.2    | .1      | .1      |         |         |         |         |         |     | 2.8   | 6.0             |
| SE                   | .4    | 1.4   | 2.7    | 1.0     | .2      |         |         |         |         |         |     | 5.6   | 6.5             |
| SSE                  | .3    | 1.3   | 2.4    | 1.1     | .3      | .1      |         |         |         |         |     | 5.3   | 6.0             |
| S                    | .1    | .7    | 1.2    | .5      | .1      |         |         |         |         |         |     | 2.5   | 8.2             |
| SSW                  | .2    | .8    | .5     | .5      | .3      | .2      |         |         |         |         |     | 2.3   | 9.8             |
| SW                   | .1    | .7    | .2     | .1      |         |         |         |         |         |         |     | 1.1   | 6.0             |
| WSW                  | .2    | .4    | .1     | .1      | .1      | .1      |         |         |         |         |     | .8    | 6.9             |
| W                    | .2    | .6    | .2     | .1      |         |         |         |         |         |         |     | 1.0   | 5.8             |
| WNW                  | .2    | .8    | .6     | .3      | .3      | .1      |         |         |         |         |     | 2.2   | 9.1             |
| NW                   | .3    | 1.8   | 3.0    | 1.6     | .6      | .2      |         |         |         |         |     | 7.3   | 9.7             |
| NNW                  | .3    | 3.4   | 6.1    | 4.3     | 2.6     | .6      | .1      | .1      |         |         |     | 17.3  | 11.2            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 3.1   |                 |
|                      | 3.7   | 30.9  | 38.4   | 14.4    | 5.9     | 1.6     | .2      | .1      |         |         |     | 100.0 | 8.3             |

TOTAL NUMBER OF OBSERVATIONS 2000

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47, 49-68 YEARS MAY MONTH 0600-0800 HOURS (LST.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>Dir. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                    | .7    | 2.4   | 3.2    | 2.7     | 1.3     | .2      | .1      |         |         |         |      | 10.7  | 10.4            |
| NNE                  | 1.3   | 3.0   | 1.8    | 1.0     | .2      | .0      |         |         |         |         |      | 7.4   | 7.1             |
| NE                   | .6    | 1.7   | .9     | .5      | .1      | .0      |         |         |         |         |      | 3.9   | 6.9             |
| ENE                  | .5    | .9    | 1.2    | .1      | .0      |         |         |         |         |         |      | 2.8   | 5.4             |
| E                    | .8    | 1.6   | .6     |         | .0      |         |         |         |         |         |      | 3.0   | 5.2             |
| ESE                  | 1.0   | 2.0   | 1.3    | .2      | .1      |         |         |         |         |         |      | 4.7   | 6.0             |
| SE                   | 1.1   | 2.8   | 3.1    | 1.7     | .2      | .0      |         |         |         |         |      | 9.0   | 7.8             |
| SSE                  | 1.2   | 2.6   | 4.2    | 2.4     | .8      | .1      |         |         |         |         |      | 11.5  | 9.0             |
| S                    | .8    | 1.7   | 2.3    | 1.3     | .5      | .1      |         |         |         |         |      | 6.8   | 9.0             |
| SSW                  | .3    | 1.4   | .9     | .6      | .4      | .2      | .2      |         |         |         |      | 4.1   | 10.2            |
| SW                   | .5    | 1.1   | .3     | .2      | .1      | .1      | .0      |         |         |         |      | 2.4   | 7.9             |
| WSW                  | .4    | .5    | .4     | .2      | .0      |         |         |         |         |         |      | 1.6   | 6.5             |
| W                    | .6    | .7    | .3     | .2      | .1      | .0      |         |         |         |         |      | 2.0   | 6.9             |
| WNW                  | .1    | .9    | .9     | .3      | .1      |         |         |         |         |         |      | 2.7   | 8.2             |
| NW                   | .7    | 1.6   | 2.0    | 1.9     | .7      | .2      | .0      |         |         |         |      | 7.0   | 10.2            |
| NNW                  | .7    | 2.2   | 4.1    | 3.1     | 2.8     | 1.2     | .1      |         |         |         |      | 14.4  | 12.3            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |      | 5.8   |                 |
|                      | 11.7  | 27.0  | 27.8   | 16.8    | 7.8     | 2.4     | .3      |         |         |         |      | 100.0 | 8.4             |

TOTAL NUMBER OF OBSERVATIONS 2004

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 43-47, 49-68 MONTH MAY  
CLASS ALL WEATHER MONTH 0900-1100  
CONDITION NOTES (L.S.T.)

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                        | .3    | .8    | 1.5    | 2.1     | 1.1     | .3      |         |         |         |         |     | 6.3   | 12.3                  |
| NNE                      | .1    | .6    | 1.1    | 1.4     | .2      | .0      |         |         |         |         |     | 5.6   | 10.4                  |
| NE                       | .2    | .9    | .8     | .6      | .4      | .1      | .0      |         |         |         |     | 3.1   | 10.4                  |
| ENE                      | .0    | 1.3   | .9     | .1      |         | .0      |         |         |         |         |     | 2.5   | 6.9                   |
| E                        | .2    | .8    | .7     | .3      |         | .0      |         |         |         |         |     | 2.2   | 7.6                   |
| ESE                      | .5    | 1.6   | 2.7    | 1.1     |         |         |         |         |         |         |     | 6.2   | 7.7                   |
| SE                       | .5    | 2.6   | 5.0    | 3.9     | .8      | .0      |         |         |         |         |     | 12.8  | 9.6                   |
| SSE                      | .5    | 2.8   | 6.5    | 6.7     | 1.8     | .4      | .1      |         |         |         |     | 18.8  | 11.0                  |
| S                        | .5    | 2.1   | 5.0    | 4.9     | 1.2     | .6      |         |         |         |         |     | 14.0  | 10.8                  |
| SSW                      | .7    | 1.2   | 1.9    | 1.3     | 1.1     | 1.0     | .2      |         |         |         |     | 7.6   | 12.4                  |
| SW                       | .3    | 1.0   | .9     | .4      | .4      | .3      | .2      |         |         |         |     | 3.6   | 11.2                  |
| WSW                      | .0    | .7    | .5     | .3      | .1      | .1      | .1      |         |         |         |     | 2.0   | 11.1                  |
| W                        | .4    | .6    | .5     | .2      | .3      | .1      |         |         |         |         |     | 2.3   | 9.0                   |
| WNW                      | .1    | .3    | 1.1    | .6      | .2      | .1      | .1      |         |         |         |     | 2.7   | 11.5                  |
| NW                       | .3    | .3    | 1.1    | 1.0     | .6      | .4      | .0      | .0      |         |         |     | 4.0   | 13.6                  |
| NNW                      | .3    | .7    | 2.0    | 2.0     | 1.4     | .6      | .2      |         |         |         |     | 7.3   | 13.2                  |
| VARBL                    |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                     |       |       |        |         |         |         |         |         |         |         |     | 1.1   |                       |
|                          | 5.3   | 18.9  | 32.4   | 26.7    | 9.6     | 4.6     | 1.1     | .0      |         |         |     | 100.0 | 10.6                  |

TOTAL NUMBER OF OBSERVATIONS 2013

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FO 43-47,49-68 AY  
STATION MONTH  
CLASS 1200-1400  
CONDITION HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | .4    | 1.1    | 1.1     | 1.2     | .4      | .1      |         |         |         |      | 4.8   | 13.4                  |
| NNE                     | .3    | .3    | 1.4    | 1.4     | .5      | .0      |         |         |         |         |      | 4.1   | 11.1                  |
| NE                      | .1    | .4    | 1.1    | .9      | .2      | .1      |         | .0      |         |         |      | 2.9   | 11.0                  |
| SNE                     |       | .3    | .9     | .3      | .0      |         |         |         |         |         |      | 1.8   | 8.4                   |
| E                       | .1    | .7    | .8     | .5      | .1      |         |         |         |         |         |      | 2.3   | 8.6                   |
| ESE                     | .1    | 1.0   | 2.3    | 1.2     | .2      |         |         |         |         |         |      | 4.9   | 9.1                   |
| SE                      | .3    | 1.4   | 3.9    | 4.1     | 1.2     | .1      | .0      |         |         |         |      | 11.3  | 11.1                  |
| SSE                     | .2    | 1.2   | 6.3    | 7.2     | 3.9     | .9      | .3      |         |         |         |      | 20.0  | 13.1                  |
| S                       | .1    | 1.5   | 3.2    | 5.6     | 1.9     | 1.2     | .0      |         |         |         |      | 13.7  | 13.0                  |
| SSW                     | .2    | 1.1   | 2.4    | 2.0     | 2.6     | .9      | .3      | .1      |         |         |      | 9.9   | 14.2                  |
| SW                      | .3    | .7    | 1.7    | 1.1     | 1.1     | .7      | .3      | .1      |         |         |      | 6.0   | 14.0                  |
| WSW                     | .0    | .7    | .6     | 1.1     | .5      | .1      | .2      |         |         |         |      | 3.4   | 13.1                  |
| W                       | .2    | .1    | .6     | .9      | .5      | .1      |         |         |         |         |      | 2.1   | 12.8                  |
| WNW                     | .4    | .3    | .6     | .6      | .4      | .3      | .0      |         |         |         |      | 2.8   | 11.7                  |
| NW                      |       | .4    | .8     | .9      | .5      | .7      | .1      |         |         |         |      | 3.8   | 14.7                  |
| NNW                     | .1    | .9    | 1.3    | 1.2     | 1.1     | .7      | .2      |         |         |         |      | 5.3   | 14.6                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | 3.0   | 11.5  | 29.3   | 30.1    | 16.4    | 6.4     | 1.9     | .3      |         |         |      | 100.0 | 12.5                  |

TOTAL NUMBER OF OBSERVATIONS 2002

DATA PROCESSING L VISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47,49-68 YEARS  
ALL WEATHER CLASS  
MAY MONTH  
1900-1700 HOURS (L.S.T.)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-----------------------|
| N                       | .1    | .5    | 1.5    | 1.6     | 1.0     | .9      | .1      |         |         |         |     | 9.8                   |
| NNE                     | .1    | .5    | 1.6    | 1.6     | .9      | .2      |         |         |         |         |     | 4.9                   |
| NE                      | .2    | .7    | 1.3    | 1.2     | .5      | .2      | .0      | .0      |         |         |     | 4.4                   |
| ENE                     | .2    | .4    | 1.4    | 1.1     | .1      | .0      |         |         |         |         |     | 3.3                   |
| E                       | .0    | .8    | .9     | .5      | .4      |         |         |         |         |         |     | 2.8                   |
| ESE                     | .1    | 1.0   | 2.0    | 1.4     | .3      | .0      | .0      |         |         |         |     | 5.1                   |
| SE                      | .3    | .9    | 3.2    | 3.3     | 1.1     | .4      | .1      |         |         |         |     | 9.6                   |
| SSE                     | .1    | 1.0   | 4.0    | 6.7     | 2.1     | .8      | .1      | .1      |         |         |     | 15.0                  |
| S                       | .1    | .8    | 3.5    | 3.1     | 1.0     | .3      | .0      |         |         |         |     | 10.4                  |
| SSW                     | .1    | 1.0   | 1.7    | 1.9     | 1.9     | 1.3     | .5      |         |         |         |     | 8.6                   |
| SW                      | .0    | 1.0   | 2.0    | 1.5     | 1.1     | .8      | .6      | .1      |         |         |     | 7.6                   |
| WSW                     | .0    | .3    | .9     | .6      | .7      | .3      | .0      |         |         |         |     | 3.0                   |
| W                       | .0    | .5    | 1.2    | .8      | .4      | .2      |         |         |         |         |     | 3.3                   |
| WNW                     | .1    | .5    | .9     | 1.6     | .7      | .4      | .1      |         |         |         |     | 4.4                   |
| NW                      | .1    | .5    | 1.5    | 1.5     | .2      | .4      |         |         |         |         |     | 4.9                   |
| NNW                     | .0    | .5    | .9     | 2.1     | 1.2     | 1.1     | .2      | .0      |         |         |     | 6.3                   |
| VAPBL                   |       |       |        |         |         |         |         |         |         |         |     |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | .7                    |
|                         | 1.9   | 11.2  | 28.7   | 31.8    | 15.6    | 7.7     | 2.0     | .3      |         |         |     | 100.0                 |

TOTAL NUMBER OF OBSERVATIONS 2013

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 COLORADO SPRINGS GOLD-PETERSON FD YEARS 43-47, 49-68 MONTH MAY  
CLASS ALL WEATHER HOURS (L.S.T.) 1800-2000  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .2    | 1.4   | 2.5    | 2.3     | 1.7     | .5      | .1      |         |         |         |     | 8.7   | 12.4                  |
| NNE                     | .2    | 1.1   | 2.4    | 2.0     | .6      | .2      |         |         |         |         |     | 6.7   | 10.7                  |
| NE                      | .1    | 1.2   | 2.9    | 1.5     | .4      | .1      |         |         |         |         |     | 6.3   | 9.8                   |
| ENE                     | .1    | 1.3   | 1.7    | .5      | .3      |         |         |         |         |         |     | 4.1   | 8.7                   |
| E                       | .1    | 1.0   | 2.1    | .7      | .2      |         |         |         |         |         |     | 4.1   | 8.7                   |
| ESE                     | .2    | 2.1   | 2.9    | 1.3     | .0      |         |         |         |         |         |     | 6.7   | 8.1                   |
| SE                      | .2    | 1.8   | 4.5    | 2.5     | .5      | .2      | .1      |         |         |         |     | 9.9   | 10.0                  |
| SSE                     | .2    | 2.0   | 4.0    | 2.7     | .3      | .0      | .0      |         |         |         |     | 9.4   | 9.6                   |
| S                       | .4    | 2.1   | 3.1    | 1.0     | .2      | .1      |         |         |         |         |     | 6.9   | 8.3                   |
| SSW                     | .1    | 1.4   | 1.6    | 1.1     | .4      | .0      |         |         |         |         |     | 4.7   | 9.5                   |
| SW                      | .2    | 1.1   | 1.4    | 1.3     | .6      | .3      | .1      |         |         |         |     | 5.2   | 11.4                  |
| WSW                     | .1    | .6    | .7     | .6      | .3      | .0      |         |         |         |         |     | 2.4   | 10.2                  |
| W                       | .1    | .6    | .9     | .5      | .1      | .0      | .0      |         |         |         |     | 2.4   | 9.3                   |
| WNW                     | .1    | .6    | 1.1    | .9      | .2      | .1      |         |         |         |         |     | 3.1   | 10.4                  |
| NW                      | .1    | 1.4   | 2.9    | 2.2     | 1.1     | .2      | .1      |         |         |         |     | 8.2   | 11.2                  |
| NNW                     | .1    | 1.3   | 3.0    | 3.3     | 1.4     | .8      | .0      |         |         |         |     | 10.5  | 12.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | .7    |                       |
|                         | 2.9   | 21.8  | 37.7   | 24.5    | 8.6     | 2.9     | .7      |         |         |         |     | 100.0 | 10.1                  |

TOTAL NUMBER OF OBSERVATIONS 2015

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLU-PETERSON FD YEARS 43-47, 49-68 DAY 2100-2300  
 CLASS ALL WEATHER MONTH NORTH  
 CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 2.9   | 5.2    | 3.6     | 1.3     | .6      | .1      |         |         |         |      | 14.0  | 10.5                  |
| NNE                     | .8    | 3.4   | 4.0    | 1.4     | .7      | .2      |         |         |         |         |      | 10.2  | 8.4                   |
| NE                      | .7    | 2.4   | 3.1    | .9      | .3      | .1      |         |         |         |         |      | 7.3   | 7.7                   |
| ENE                     | .3    | 2.0   | 1.0    | .4      | .2      |         |         |         |         |         |      | 4.5   | 7.1                   |
| E                       | .2    | 1.9   | 1.8    | .2      | .1      |         |         |         |         |         |      | 4.1   | 6.7                   |
| ESE                     | .3    | 1.9   | 1.9    | .6      | .1      | .1      | .1      |         |         |         |      | 4.8   | 7.8                   |
| SE                      | .4    | 2.0   | 3.6    | 1.0     | .2      | .2      |         |         |         |         |      | 7.3   | 8.7                   |
| SSE                     | .3    | 2.1   | 4.1    | 1.2     | .1      | .2      |         |         |         |         |      | 7.7   | 8.0                   |
| S                       | .5    | 1.6   | 2.3    | 1.1     | .3      | .1      |         |         |         |         |      | 5.8   | 8.5                   |
| SSW                     | .3    | 1.6   | .9     | .4      | .4      |         |         |         |         |         |      | 2.9   | 9.0                   |
| SW                      | .4    | .4    | .7     | .4      | .2      |         |         |         |         |         |      | 2.0   | 8.3                   |
| WSW                     | .2    | .8    | .3     | .1      |         | .1      |         |         |         |         |      | 1.4   | 6.7                   |
| W                       | .1    | .9    | .6     | .1      | .1      | .1      |         |         |         |         |      | 1.2   | 7.8                   |
| WNW                     | .1    | .9    | .8     | .3      | .7      |         |         |         |         |         |      | 2.2   | 8.4                   |
| NW                      | .5    | 1.6   | 2.7    | 2.8     | .7      | .1      |         |         |         |         |      | 7.4   | 9.7                   |
| NNW                     | .4    | 2.5   | 5.0    | 4.1     | 2.0     | .9      | .2      |         |         |         |      | 15.6  | 11.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.9   |                       |
|                         | 5.5   | 27.3  | 39.1   | 17.4    | 6.4     | 2.2     | .3      |         |         |         |      | 100.0 | 8.9                   |

TOTAL NUMBER OF OBSERVATIONS 1998

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS GOLD-PETERSON FD 43-47, 49-60 YEARS MONTH NORTH ALL HOURS (L S T.)  
CLASS ALL WEATHER  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .4    | 2.0   | 3.5    | 2.5     | 1.2     | .5      | .1      |         |         |         |     | 10.2  | 10.9            |
| NNE                  | .5    | 2.3   | 3.2    | 1.4     | .5      | .1      | .0      |         |         |         |     | 8.0   | 8.7             |
| NE                   | .4    | 2.2   | 2.1    | .9      | .3      | .1      | .0      | .0      |         |         |     | 5.9   | 8.2             |
| ENE                  | .2    | 1.4   | 1.3    | .4      | .1      | .0      |         |         |         |         |     | 3.5   | 7.5             |
| E                    | .3    | 1.3   | 1.3    | .4      | .1      | .0      |         |         |         |         |     | 3.4   | 7.4             |
| ESE                  | .4    | 1.6   | 2.1    | .8      | .1      | .0      | .0      |         |         |         |     | 5.0   | 7.9             |
| SE                   | .4    | 1.8   | 3.7    | 2.3     | .6      | .1      | .0      |         |         |         |     | 9.0   | 9.7             |
| SSE                  | .4    | 1.8   | 4.2    | 3.6     | 1.2     | .3      | .1      | .0      |         |         |     | 11.6  | 10.9            |
| S                    | .4    | 1.4   | 2.7    | 2.2     | .8      | .3      | .0      |         |         |         |     | 7.8   | 10.6            |
| SSW                  | .3    | 1.1   | 1.3    | 1.1     | .9      | .5      | .2      | .0      |         |         |     | 5.3   | 12.2            |
| SW                   | .3    | .8    | .9     | .7      | .4      | .3      | .2      | .0      |         |         |     | 3.7   | 11.9            |
| WSW                  | .1    | .5    | .5     | .4      | .2      | .1      | .1      |         |         |         |     | 2.0   | 10.7            |
| W                    | .2    | .5    | .6     | .3      | .2      | .1      | .0      |         |         |         |     | 1.9   | 9.3             |
| WNW                  | .2    | .7    | .9     | .7      | .3      | .1      | .0      |         |         |         |     | 2.9   | 10.3            |
| NW                   | .3    | 1.2   | 2.1    | 1.6     | .7      | .3      | .1      | .0      |         |         |     | 6.3   | 11.0            |
| NNW                  | .3    | 1.8   | 3.6    | 3.0     | 1.8     | .8      | .2      | .0      |         |         |     | 11.5  | 12.2            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 2.0   |                 |
|                      | 5.1   | 22.5  | 34.0   | 22.2    | 9.5     | 3.7     | .9      | .1      |         |         |     | 100.0 | 10.0            |

TOTAL NUMBER OF OBSERVATIONS 16038

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-47,49-68 JUN  
STATION STATION NAME YEARS NORTH  
ALL WEATHER CLASS 0000-0200  
CONDITION HOURS (LST)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .7    | 4.4   | 7.4    | 2.5     | 1.1     | .3      |         |         |         |         |      | 16.7  | 9.1                   |
| NNE                     | .7    | 4.8   | 9.0    | 1.2     | .4      | .2      |         |         |         |         |      | 16.2  | 7.8                   |
| NE                      | .5    | 3.8   | 3.6    | .5      | .2      | .1      |         |         |         |         |      | 8.6   | 7.0                   |
| ENE                     | .2    | 2.6   | 1.7    | .1      |         |         |         |         |         |         |      | 4.6   | 6.2                   |
| E                       | .3    | 1.5   | 2.2    | .4      |         |         |         |         |         |         |      | 4.8   | 6.9                   |
| ESE                     | .4    | 1.7   | 2.1    | .4      |         |         |         |         |         |         |      | 4.6   | 7.0                   |
| SE                      | .2    | 2.0   | 2.5    | .7      |         | .1      |         |         |         |         |      | 5.4   | 7.7                   |
| SSE                     | .4    | 1.4   | 2.5    | .6      | .1      |         |         |         |         |         |      | 5.0   | 7.9                   |
| S                       | .3    | 1.5   | 1.2    | .4      | .1      |         |         |         |         |         |      | 3.5   | 7.2                   |
| SSW                     | .2    | .5    | .5     | .3      | .1      |         |         |         |         |         |      | 1.5   | 7.7                   |
| SW                      | .2    | .3    | .6     | .1      | .1      |         |         |         |         |         |      | 1.2   | 7.0                   |
| WSW                     | .2    | .4    | .2     | .1      |         |         |         |         |         |         |      | .8    | 5.6                   |
| W                       | .2    | .6    | .2     | .2      |         |         |         |         |         |         |      | 1.0   | 6.4                   |
| WNW                     | .3    | .6    | .8     | .4      | .1      |         |         |         |         |         |      | 2.1   | 7.8                   |
| NW                      | .4    | 1.8   | 2.5    | 1.5     | .6      | .2      |         |         |         |         |      | 7.0   | 9.4                   |
| NNW                     | .5    | 2.3   | 7.0    | 2.7     | 2.0     | .5      |         |         |         |         |      | 15.4  | 10.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.7   |                       |
|                         | 5.4   | 31.0  | 43.9   | 12.2    | 4.6     | 1.1     |         |         |         |         |      | 100.0 | 8.1                   |

TOTAL NUMBER OF OBSERVATIONS 1937

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS GOLD-PETERSON FD YEARS 43-47, 49-58 MONTH JUN  
CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .8    | 5.4   | 9.6    | 3.3     | 1.2     | .3      |         |         |         |         |      | 20.7  | 8.9                   |
| NNE                     | .9    | 5.9   | 9.8    | 1.0     | .2      |         |         |         |         |         |      | 17.8  | 7.2                   |
| NE                      | .6    | 4.6   | 4.0    | .3      | .1      |         |         |         |         |         |      | 9.6   | 6.4                   |
| ENE                     | .5    | 1.7   | 1.0    | .1      |         |         |         |         |         |         |      | 3.2   | 6.1                   |
| E                       | .7    | 1.7   | 1.2    | .1      |         |         |         |         |         |         |      | 3.7   | 5.6                   |
| ESE                     | .7    | 2.0   | 1.2    | .2      |         |         |         |         |         |         |      | 4.1   | 5.0                   |
| SE                      | .6    | 1.5   | 2.0    | .4      | .1      |         |         |         |         |         |      | 4.5   | 6.8                   |
| SSE                     | .4    | 1.3   | 1.8    | .6      |         |         |         |         |         |         |      | 4.1   | 7.4                   |
| S                       | .2    | .9    | 1.1    | .5      | .1      | .1      |         |         |         |         |      | 2.9   | 8.6                   |
| SSW                     | .3    | .8    | .2     |         | .1      | .1      | .1      |         |         |         |      | 1.4   | 6.9                   |
| SW                      | .2    | .3    | .3     |         | .1      |         |         |         |         |         |      | .8    | 6.5                   |
| WSW                     | .1    | .5    | .1     |         |         |         |         |         |         |         |      | .6    | 4.5                   |
| W                       | .1    | .4    | .2     |         |         |         |         |         |         |         |      | .7    | 5.7                   |
| WNW                     | .3    | 1.3   | .7     | .1      | .1      |         | .1      |         |         |         |      | 2.5   | 7.5                   |
| NW                      | .6    | 1.6   | 2.1    | 1.0     | .6      | .2      | .1      | .1      |         |         |      | 6.1   | 9.5                   |
| NNW                     | .4    | 2.9   | 6.1    | 3.6     | 1.5     | .6      |         |         |         |         |      | 15.0  | 10.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.2   |                       |
|                         | 7.2   | 32.9  | 41.5   | 10.9    | 3.8     | 1.2     | .2      | .1      |         |         |      | 100.0 | 7.8                   |

TOTAL NUMBER OF OBSERVATIONS 1941

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47,49-68 YEARS JUN MONTH 0600-0800 HOURS (LST)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .7    | 2.6   | 3.5    | 2.3     | .5      | .3      | .1      |         |         |         |     | 10.0  | 4.3             |
| NNE                  | .6    | 3.8   | 2.3    | .9      | .2      | .1      | .1      |         |         |         |     | 8.0   | 7.2             |
| NE                   | 1.1   | 2.6   | .7     | .1      |         |         |         |         |         |         |     | 4.4   | 5.1             |
| ENE                  | .8    | 2.0   | .2     | .1      |         |         |         |         |         |         |     | 3.4   | 5.1             |
| E                    | .9    | 2.6   | .8     | .1      | .2      |         |         |         |         |         |     | 4.5   | 5.8             |
| ESE                  | 1.0   | 2.5   | 1.8    | .2      |         |         |         |         |         |         |     | 5.4   | 6.0             |
| SE                   | 1.4   | 4.0   | 2.9    | 1.1     | .2      |         |         |         |         |         |     | 9.6   | 6.8             |
| SSE                  | 1.2   | 3.3   | 4.4    | 1.9     | .6      | .1      |         |         |         |         |     | 11.4  | 8.2             |
| S                    | 1.2   | 2.1   | 2.8    | 1.3     | .4      | .1      |         |         |         |         |     | 7.8   | 8.1             |
| SSW                  | 1.2   | 1.6   | 1.1    | .5      | .2      | .1      |         |         |         |         |     | 4.6   | 6.8             |
| SW                   | .7    | .9    | .3     | .4      | .1      |         |         |         |         |         |     | 2.3   | 6.1             |
| WSW                  | .7    | .6    | .3     |         | .1      |         |         |         |         |         |     | 1.6   | 5.1             |
| W                    | .5    | .7    | .1     |         | .1      |         |         |         |         |         |     | 1.4   | 4.8             |
| WNW                  | .6    | 1.1   | .8     | .2      | .1      |         |         |         |         |         |     | 2.7   | 6.4             |
| NW                   | 1.0   | 2.4   | 1.9    | 1.0     | .1      |         | .2      |         |         |         |     | 6.5   | 7.6             |
| NNW                  | 1.2   | 2.3   | 4.0    | 2.6     | 1.4     | .4      |         |         |         |         |     | 11.9  | 10.1            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 4.4   |                 |
|                      | 15.0  | 34.9  | 28.0   | 12.5    | 3.9     | 1.0     | .3      |         |         |         |     | 100.0 | 7.2             |

TOTAL NUMBER OF OBSERVATIONS 1940

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COL-D-PETERSON FD YEARS 43-47, 49-68 MONTH JUN  
CLASS ALL WEATHER HOURS (LST) 0900-1100  
CONDITION \_\_\_\_\_

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                        | .1    | .6    | 1.2    | 1.1     | .5      | .1      |         |         |         |         |      | 3.5   | 10.9                  |
| NNE                      | .3    | 1.0   | 1.5    | .8      | .1      |         |         |         |         |         |      | 3.8   | 6.6                   |
| NE                       | .4    | .5    | .8     | .5      | .2      |         |         |         |         |         |      | 2.4   | 5.6                   |
| ENE                      | .4    | .6    | 1.3    | .5      | .1      |         |         |         |         |         |      | 3.0   | 7.6                   |
| E                        | .3    | 1.0   | 1.0    | .7      |         |         |         |         |         |         |      | 2.9   | 7.8                   |
| ESE                      | .3    | 2.0   | 2.0    | .9      | .1      |         |         |         |         |         |      | 6.2   | 7.8                   |
| SE                       | .5    | 3.4   | 8.1    | 3.2     | 1.3     | .3      |         |         |         |         |      | 14.7  | 9.6                   |
| SSE                      | .9    | 2.8   | 9.7    | 6.9     | 3.4     | .4      |         |         |         |         |      | 24.1  | 11.3                  |
| S                        | .6    | 2.5   | 5.0    | 4.1     | 2.0     | .4      |         |         |         |         |      | 14.8  | 10.8                  |
| SSW                      | 1.0   | 1.9   | 2.0    | 1.7     | 1.2     | .4      |         | .1      |         |         |      | 8.2   | 10.5                  |
| SW                       | .2    | 1.0   | .6     | 1.0     | .6      | .4      |         |         |         |         |      | 3.8   | 12.0                  |
| WSW                      | .1    | .6    | .4     | .6      | .2      | .1      |         |         |         |         |      | 1.9   | 10.2                  |
| W                        | .3    | .5    | .3     | .2      | .1      | .1      | .1      |         |         |         |      | 1.3   | 8.7                   |
| WNW                      | .3    | .7    | .5     | .2      | .2      | .1      | .1      |         |         |         |      | 1.9   | 8.5                   |
| NW                       | .2    | .7    | .8     | .2      |         |         |         |         |         |         |      | 1.9   | 7.3                   |
| NNW                      | .3    | .5    | 1.3    | 1.0     | .7      | .6      |         |         |         |         |      | 4.5   | 12.4                  |
| VARBL                    |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                     |       |       |        |         |         |         |         |         |         |         |      | 1.1   |                       |
|                          | 6.4   | 20.5  | 35.3   | 23.6    | 10.3    | 2.7     | .1      | .1      |         |         |      | 100.0 | 10.0                  |

TOTAL NUMBER OF OBSERVATIONS 1936

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47.49-68 YEARS  
STATION NAME CLASS ALL WEATHER  
CONDITION  
JUN NORTH  
1200-1400 HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .1    | .2    | .9     | .6      | .3      | .2      | .1      |         |         |         |     | 2.3   | 13.1                  |
| NNE                     | .2    | .5    | 1.0    | 1.2     | .5      |         |         |         |         |         |     | 3.3   | 10.9                  |
| NE                      | .3    | .4    | 1.3    | 1.2     | .5      | .2      |         |         |         |         |     | 4.0   | 11.5                  |
| ENE                     | .1    | .8    | 1.3    | .7      | .2      |         |         |         |         |         |     | 3.0   | 9.3                   |
| E                       | .2    | 1.0   | 1.3    | 1.0     | .2      |         |         |         |         |         |     | 3.7   | 8.9                   |
| ESE                     | .3    | .8    | 2.7    | 1.1     | .3      | .1      |         |         |         |         |     | 5.3   | 9.7                   |
| SE                      | .2    | 1.1   | 4.6    | 3.9     | 1.7     | .5      | .1      |         |         |         |     | 12.0  | 11.9                  |
| SSE                     | .3    | 1.9   | 5.7    | 8.6     | 5.2     | 1.3     |         | .1      |         |         |     | 22.9  | 13.4                  |
| S                       | .3    | 1.1   | 3.4    | 5.3     | 3.8     | 1.1     |         | .1      | .1      |         |     | 15.1  | 13.8                  |
| SSW                     | .1    | 1.0   | 2.3    | 3.5     | 2.5     | 1.4     | .2      | .3      |         |         |     | 11.2  | 14.9                  |
| SW                      | .2    | .7    | 1.1    | 1.0     | 1.2     | .6      | .1      | .1      | .1      |         |     | 5.1   | 14.0                  |
| WSW                     | .1    | .5    | .7     | .5      | .5      | .2      |         |         |         |         |     | 2.4   | 12.0                  |
| W                       | .3    | .4    | .3     | .4      | .1      | .1      | .2      |         |         |         |     | 1.5   | 11.0                  |
| WNW                     | .1    | .1    | .7     | .6      | .2      | .3      | .1      |         |         |         |     | 1.9   | 13.6                  |
| NW                      | .1    | .6    | .5     | .6      | .2      | .1      |         |         |         |         |     | 2.1   | 10.6                  |
| NNW                     | .1    | .8    | .7     | 1.2     | .9      | .2      |         |         |         |         |     | 3.8   | 12.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | .3    |                       |
|                         | 2.6   | 11.8  | 28.4   | 31.4    | 18.2    | 6.2     | .6      | .4      | .1      |         |     | 100.0 | 12.6                  |

TOTAL NUMBER OF OBSERVATIONS 1939

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS CGO-PETERSON FD 43-47,49-60  
STATION MONTH  
ALL WEATHER 1500-1700  
CLASS HOURS (LST)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .2    | .4    | 1.2    | 1.1     | .8      | .6      | .1      |         |         |         |     | 4.3   | 13.4                  |
| NNE                     | .2    | .5    | 1.4    | 1.4     | .7      | .3      |         |         |         |         |     | 4.4   | 12.0                  |
| NE                      | .2    | .6    | 1.7    | 1.6     | 1.0     | .1      |         |         |         |         |     | 5.2   | 11.8                  |
| ENE                     | .1    | .8    | 1.5    | .9      | .2      | .1      |         |         |         |         |     | 3.4   | 9.9                   |
| E                       | .3    | .8    | 1.5    | .9      | .4      | .1      |         |         |         |         |     | 3.9   | 9.8                   |
| ESE                     | .2    | 1.1   | 2.1    | 1.2     | .6      | .1      | .1      |         |         |         |     | 5.2   | 10.2                  |
| SE                      | .1    | 1.3   | 3.0    | 4.8     | 2.5     | .6      | .1      |         |         |         |     | 12.4  | 12.9                  |
| SSE                     | .5    | 1.3   | 4.3    | 6.1     | 3.5     | .7      |         |         |         |         |     | 16.6  | 12.8                  |
| S                       | .1    | 1.2   | 3.7    | 4.3     | 3.0     | 1.1     | .1      | .1      |         |         |     | 13.7  | 13.8                  |
| SSW                     |       | .7    | 1.3    | 2.5     | 2.1     | 1.1     | .4      |         |         |         |     | 8.2   | 15.6                  |
| SW                      | .2    | .8    | 1.0    | 1.7     | 1.6     | 1.0     | .3      |         |         |         |     | 6.6   | 15.2                  |
| WSW                     | .2    | .2    | .5     | .7      | .5      | .1      |         |         |         |         |     | 2.0   | 12.8                  |
| W                       | .1    | .4    | .6     | .8      | .3      | .2      | .1      |         |         |         |     | 2.5   | 12.7                  |
| WNW                     | .1    | .2    | .8     | .9      | .4      | .3      |         |         |         |         |     | 2.6   | 12.9                  |
| NW                      | .2    | .6    | 1.1    | .9      | .6      | .2      | .1      |         |         |         |     | 3.6   | 12.1                  |
| NNW                     | .1    | .7    | 1.3    | 1.1     | .9      | .8      | .1      |         |         |         |     | 4.9   | 13.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | .4    |                       |
|                         | 2.2   | 11.5  | 27.1   | 31.2    | 19.1    | 7.2     | 1.2     | .1      |         |         |     | 100.0 | 12.9                  |

TOTAL NUMBER OF OBSERVATIONS 1946

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93077 STATION COLDRA00 SPRINGS COLD-PETERSON FD 43-47,49-68 YEARS MONTH JULY 1800-2000 HOURS (L.S.T.)

CLASS ALL WEATHER

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .2    | 1.0   | 2.7    | 1.0     | .6      | .5      | .1      |         |         |         |     | 6.9   | 11.2            |
| NNE                  | .1    | 1.5   | 2.9    | 2.1     | .6      | .3      |         |         |         |         |     | 7.4   | 10.7            |
| NE                   | .3    | 1.4   | 2.0    | 1.1     | .4      | .1      |         |         |         |         |     | 5.2   | 9.2             |
| ENE                  | .2    | 1.5   | 2.2    | 1.0     | .1      | .1      |         |         |         |         |     | 5.1   | 8.6             |
| E                    | .3    | .9    | 2.5    | 1.0     | .4      |         |         |         |         |         |     | 5.1   | 9.1             |
| ESE                  | .1    | 1.0   | 3.4    | 1.6     | .7      | .1      |         |         |         |         |     | 7.3   | 9.7             |
| SE                   | .2    | 2.1   | 5.0    | 2.7     | 1.1     | .3      |         |         |         |         |     | 11.4  | 10.3            |
| SSE                  | .3    | 1.5   | 4.1    | 3.3     | 1.0     | .1      |         |         |         |         |     | 10.2  | 10.5            |
| S                    | .4    | 1.5   | 3.1    | 2.3     | .5      | .1      | .1      |         |         |         |     | 7.8   | 9.9             |
| SSW                  | .3    | 2.0   | 1.5    | 1.3     | .6      | .2      |         |         |         |         |     | 5.8   | 9.5             |
| SW                   | .2    | 1.0   | 2.0    | 1.2     | .5      | .2      | .1      |         |         |         |     | 5.2   | 10.5            |
| WSW                  | .2    | 1.1   | .4     | .4      | .2      | .1      |         |         |         |         |     | 2.3   | 8.3             |
| W                    | .1    | .6    | .9     | .3      | .3      | .2      |         |         |         |         |     | 2.4   | 10.0            |
| WNW                  | .7    | .4    | 1.2    | .9      | .2      | .1      | .1      |         |         |         |     | 3.0   | 10.3            |
| NW                   | .3    | 1.9   | 2.3    | 1.2     | .3      | .1      |         |         |         |         |     | 5.1   | 8.8             |
| NNW                  | .2    | 1.0   | 2.6    | 2.2     | 1.1     | .7      | .2      |         |         |         |     | 8.1   | 12.2            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | .7    |                 |
|                      | 3.1   | 21.3  | 39.0   | 24.3    | 8.6     | 2.6     | .4      |         |         |         |     | 100.0 | 10.0            |

TOTAL NUMBER OF OBSERVATIONS 1937

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-47,49-68  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
JUN  
MONTH  
2100-2300  
HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .4    | 2.9   | 6.0    | 2.1     | .9      | .4      | .1      |         |         |         |     | 12.8  | 9.4                   |
| NNE                     | .4    | 2.5   | 4.6    | 1.5     | .4      |         |         |         |         |         |     | 9.5   | 8.3                   |
| NE                      | .7    | 2.9   | 3.3    | .7      | .3      | .1      |         |         |         |         |     | 8.0   | 7.4                   |
| ENE                     | .5    | 2.0   | 2.3    | .3      |         |         |         |         |         |         |     | 5.0   | 6.6                   |
| E                       | .6    | 2.3   | 3.2    | 1.0     | .2      |         |         |         |         |         |     | 7.2   | 7.8                   |
| ESE                     | .3    | 1.4   | 2.2    | .6      | .1      |         |         |         |         |         |     | 4.6   | 7.7                   |
| SE                      | .4    | 1.6   | 3.1    | 1.1     | .1      |         |         |         |         |         |     | 6.2   | 8.1                   |
| SSE                     | .3    | 1.9   | 3.3    | 1.1     | .1      | .1      |         |         |         |         |     | 6.7   | 8.3                   |
| S                       | .3    | 1.5   | 1.8    | .5      | .2      | .1      |         |         |         |         |     | 4.3   | 8.1                   |
| SSW                     | .2    | 1.2   | 1.0    | .3      | .1      | .1      | .1      |         |         |         |     | 2.8   | 8.2                   |
| SW                      | .4    | .5    | .7     | .3      | .1      | .1      |         |         |         |         |     | 2.0   | 7.9                   |
| WSW                     | .3    | .5    | .2     | .3      |         |         |         |         |         |         |     | 1.2   | 6.6                   |
| W                       | .2    | .5    | .5     | .1      | .1      |         |         |         |         |         |     | 1.3   | 3.0                   |
| WNW                     | .3    | 1.0   | .8     | .5      | .2      | .1      | .1      |         |         |         |     | 2.8   | 9.0                   |
| NW                      | .5    | 2.1   | 3.0    | 1.6     | .5      | .3      |         |         |         |         |     | 7.9   | 9.1                   |
| NNW                     | .6    | 3.4   | 3.1    | 4.4     | 1.4     | .6      | .1      |         |         |         |     | 15.6  | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.9   |                       |
|                         | 6.0   | 28.3  | 41.1   | 16.3    | 4.4     | 1.7     | .3      |         |         |         |     | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS 1938

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-47, 49-68 YEARS  
JUN MONTH  
ALL HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .4    | 2.2   | 4.1    | 1.9     | .3      | .3      | .0      |         |         |         |     | 9.6   | 9.7                   |
| NNE                     | .4    | 2.6   | 4.1    | 1.3     | .4      | .1      | .0      |         |         |         |     | 3.3   | 8.4                   |
| NE                      | .5    | 2.1   | 2.2    | .8      | .3      | .1      |         |         |         |         |     | 5.9   | 8.0                   |
| ENE                     | .3    | 1.5   | 1.5    | .4      | .1      | .0      |         |         |         |         |     | 3.8   | 7.3                   |
| E                       | .5    | 1.5   | 1.7    | .6      | .2      | .0      |         |         |         |         |     | 4.5   | 7.7                   |
| ESE                     | .4    | 1.6   | 2.3    | .8      | .2      | .0      | .0      |         |         |         |     | 5.3   | 8.2                   |
| SE                      | .4    | 2.1   | 3.6    | 2.2     | .9      | .2      | .0      |         |         |         |     | 9.5   | 9.8                   |
| SSE                     | .5    | 2.0   | 4.3    | 3.6     | 1.7     | .3      |         | .0      |         |         |     | 12.6  | 11.0                  |
| S                       | .4    | 1.5   | 2.8    | 2.4     | 1.3     | .4      | .0      | .0      | .0      |         |     | 8.7   | 11.2                  |
| SSW                     | .4    | 1.2   | 1.2    | 1.2     | .9      | .4      | .1      | .0      |         |         |     | 5.5   | 11.7                  |
| SW                      | .3    | .7    | .8     | .7      | .5      | .3      | .1      | .0      | .0      |         |     | 3.4   | 11.7                  |
| WSW                     | .2    | .5    | .3     | .3      | .2      | .0      |         |         |         |         |     | 1.6   | 9.0                   |
| W                       | .2    | .5    | .4     | .2      | .1      | .1      | .0      |         |         |         |     | 1.5   | 9.1                   |
| WNW                     | .2    | .7    | .8     | .5      | .2      | .1      | .0      |         |         |         |     | 2.4   | 9.4                   |
| NW                      | .4    | 1.5   | 1.8    | 1.0     | .4      | .1      | .0      | .0      |         |         |     | 5.1   | 9.2                   |
| NNW                     | .4    | 1.8   | 3.5    | 2.4     | 1.2     | .5      | .0      |         |         |         |     | 9.9   | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.6   |                       |
|                         | 6.3   | 24.0  | 35.5   | 20.3    | 8.1     | 3.0     | .4      | .1      | .0      |         |     | 100.0 | 9.6                   |

TOTAL NUMBER OF OBSERVATIONS 15514

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS JUL MONTH 0000-0200 HOURS (LST.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|-----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                     | 1.0   | 5.6   | 10.0   | 1.1     | .5      | .1      |         |         |         |         |      | 19.3  | 7.5             |
| NNE                   | .5    | 5.8   | 7.4    | 1.1     |         |         |         |         |         |         |      | 14.8  | 7.0             |
| NE                    | .9    | 4.2   | 4.5    | .3      |         |         |         |         |         |         |      | 9.8   | 6.4             |
| ENE                   | .4    | 2.9   | 1.8    | .1      |         |         |         |         |         |         |      | 5.2   | 6.0             |
| E                     | .6    | 2.4   | 1.5    | .2      |         |         |         |         |         |         |      | 4.7   | 5.9             |
| ESE                   | .4    | 2.1   | 1.3    | .1      |         |         |         |         |         |         |      | 4.1   | 6.2             |
| SE                    | .5    | 2.3   | 2.1    | .5      |         |         |         |         |         |         |      | 5.3   | 6.8             |
| SSE                   | .1    | 1.2   | 1.4    | .4      |         |         |         |         |         |         |      | 3.7   | 7.2             |
| S                     | .1    | .7    | .8     | .1      | .0      |         |         |         |         |         |      | 1.8   | 6.5             |
| SSW                   | .4    | .6    | .2     | .0      |         |         |         |         |         |         |      | 1.2   | 5.0             |
| SW                    | .2    | .2    | .1     | .1      |         |         |         |         |         |         |      | .6    | 5.7             |
| WSW                   | .0    | .3    | .0     |         |         |         |         |         |         |         |      | .4    | 4.9             |
| W                     | .2    | .7    | .2     |         |         |         |         |         |         |         |      | 1.1   | 5.0             |
| WNW                   | .3    | 1.0   | .6     | .2      |         |         |         |         |         |         |      | 2.1   | 6.4             |
| WW                    | .4    | 2.5   | 3.6    | .7      | .2      | .1      |         |         |         |         |      | 7.5   | 7.8             |
| NNW                   | .6    | 4.4   | 7.6    | 3.4     | .7      | .3      | .2      |         |         |         |      | 17.5  | 9.1             |
| VARBL                 |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                  |       |       |        |         |         |         |         |         |         |         |      | 1.9   |                 |
|                       | 6.6   | 37.7  | 43.3   | 8.2     | 1.3     | .6      | .0      |         |         |         |      | 100.0 | 7.1             |

TOTAL NUMBER OF OBSERVATIONS 2027

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS  
STATION NAME CLASS ALL WEATHER  
CONDITION  
JUL NORTH  
0200-0500 HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .5    | 7.7   | 10.7   | 1.8     | .4      | .1      |         |         |         |         |     | 21.5  | 7.6                   |
| NNE                     | .9    | 6.5   | 9.2    | .8      | .2      |         |         |         |         |         |     | 17.5  | 7.0                   |
| NE                      | .7    | 5.6   | 4.3    | .0      |         |         |         |         |         |         |     | 10.5  | 6.1                   |
| ENE                     | .7    | 2.2   | 1.2    | .1      |         |         |         |         |         |         |     | 4.1   | 5.7                   |
| E                       | .9    | 1.5   | .7     | .0      |         |         |         |         |         |         |     | 3.1   | 5.1                   |
| ESE                     | .7    | 1.6   | .8     | .0      |         |         |         |         |         |         |     | 3.1   | 5.6                   |
| SE                      | .5    | 1.6   | 1.7    | .2      |         |         |         |         |         |         |     | 4.0   | 6.5                   |
| SSE                     | .2    | .8    | 1.3    | .1      |         |         |         |         |         |         |     | 2.4   | 7.0                   |
| S                       | .3    | .7    | .3     | .0      |         |         |         |         |         |         |     | 1.4   | 5.5                   |
| SSW                     | .1    | .5    | .0     |         |         |         |         |         |         |         |     | .7    | 4.8                   |
| SW                      | .1    | .5    | .0     |         |         |         |         |         |         |         |     | .7    | 4.4                   |
| WSW                     | .0    | .3    |        |         |         |         |         |         |         |         |     | .3    | 4.3                   |
| W                       | .1    | .4    | .1     |         |         |         |         |         |         |         |     | .6    | 4.8                   |
| WNW                     | .2    | 1.1   | .6     |         |         |         |         |         |         |         |     | 1.9   | 5.6                   |
| NW                      | .7    | 2.9   | 2.9    | .7      | .4      |         |         |         |         |         |     | 7.6   | 7.6                   |
| NNW                     | .7    | 4.1   | 8.4    | 3.2     | 1.5     | .1      | .0      |         |         |         |     | 17.9  | 9.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.7   |                       |
|                         | 7.5   | 37.4  | 42.5   | 7.0     | 2.5     | .2      | .0      |         |         |         |     | 100.0 | 7.0                   |

TOTAL NUMBER OF OBSERVATIONS 2092

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS GOLD-PETERSON FD 43-68 YEAR MONTH JUL  
0500-0800 HOURS (L.S.T.)  
ALL WEATHER  
CLASS  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .9    | 4.2   | 4.2    | 2.2     | .8      | .4      |         |         |         |         |     | 12.7  | 8.7                   |
| NNE                     | .8    | 4.3   | 1.7    | .6      | .1      |         |         |         |         |         |     | 7.5   | 6.4                   |
| NE                      | 1.0   | 2.9   | .4     | .1      |         |         |         |         |         |         |     | 4.5   | 5.1                   |
| ENE                     | .7    | 1.8   | .4     | .1      |         |         |         |         |         |         |     | 2.9   | 5.2                   |
| E                       | 1.0   | 2.4   | .7     | .1      | .0      |         |         |         |         |         |     | 4.3   | 5.2                   |
| ESE                     | 1.1   | 3.1   | 1.1    | .0      | .0      |         |         |         |         |         |     | 5.5   | 5.3                   |
| SE                      | 1.9   | 3.5   | 1.7    | .3      | .0      |         |         |         |         |         |     | 7.4   | 5.7                   |
| SSE                     | 1.1   | 3.0   | 3.0    | .9      | .4      |         |         |         |         |         |     | 8.5   | 7.3                   |
| S                       | 1.0   | 1.4   | 1.4    | .3      | .1      | .0      |         |         |         |         |     | 4.2   | 6.5                   |
| SSW                     | 1.1   | 1.6   | .4     | .1      | .0      |         |         |         |         |         |     | 3.2   | 5.0                   |
| SW                      | .5    | 1.1   | .1     | .0      |         |         |         |         |         |         |     | 1.8   | 4.7                   |
| WSW                     | .6    | .7    | .0     |         |         |         |         |         |         |         |     | 1.3   | 4.0                   |
| W                       | .9    | 1.2   | .2     | .1      | .0      |         |         |         |         |         |     | 2.5   | 5.0                   |
| WNW                     | 1.2   | 1.6   | .8     | .2      | .0      |         |         |         |         |         |     | 3.9   | 5.3                   |
| NW                      | 1.6   | 3.4   | 2.5    | 1.0     | .4      | .1      |         |         |         |         |     | 9.1   | 7.3                   |
| NNW                     | 1.4   | 3.8   | 5.5    | 2.7     | .9      | .7      | .0      |         |         |         |     | 14.9  | 9.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 5.8   |                       |
|                         | 16.9  | 40.1  | 24.1   | 8.9     | 2.9     | 1.2     | .0      |         |         |         |     | 100.0 | 6.5                   |

TOTAL NUMBER OF OBSERVATIONS 2156

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLCO-PETERSON FD YEARS 43-68 MONTH JUL  
CLASS ALL WEATHER HOURS 0900-1100  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .4    | .6    | 1.9    | 1.7     | .7      | .1      |         |         |         |         |     | 5.3   | 10.7            |
| NNW                  | .3    | .9    | 2.2    | 1.5     | .3      |         |         |         |         |         |     | 5.2   | 9.7             |
| NE                   | .3    | 1.3   | 1.4    | .7      | .1      |         |         |         |         |         |     | 4.1   | 8.0             |
| ENE                  | .3    | .9    | 1.1    | .3      |         |         |         |         |         |         |     | 2.8   | 7.2             |
| E                    | .5    | 1.4   | 1.6    | .2      |         |         |         |         |         |         |     | 3.8   | 6.5             |
| ESE                  | .8    | 3.3   | 2.5    | .7      | .1      |         |         |         |         |         |     | 7.4   | 6.7             |
| SE                   | 1.2   | 5.0   | 8.2    | 2.2     | .3      |         |         |         |         |         |     | 16.9  | 7.7             |
| SSE                  | 1.0   | 4.6   | 7.8    | 3.1     | 1.1     | .1      |         |         |         |         |     | 18.7  | 9.0             |
| S                    | 1.1   | 4.0   | 5.4    | 2.3     | .5      | .1      |         |         |         |         |     | 13.4  | 8.2             |
| SSW                  | .8    | 2.4   | 1.8    | .6      | .2      |         |         |         |         |         |     | 5.8   | 7.0             |
| SW                   | .6    | 1.1   | 1.0    | .7      |         |         |         |         |         |         |     | 2.7   | 5.8             |
| WSW                  | .3    | .6    | .3     | .0      |         |         |         |         |         |         |     | 1.2   | 5.6             |
| W                    | .3    | .5    | .2     | .1      | .0      |         |         |         |         |         |     | 1.3   | 6.0             |
| WNW                  | .1    | .8    | .4     | .3      | .1      |         |         |         |         |         |     | 1.8   | 7.8             |
| NW                   | .2    | 1.0   | .7     | .3      | .1      | .2      |         |         |         |         |     | 2.5   | 9.0             |
| NNW                  | .2    | .7    | 1.6    | 1.2     | .5      | .5      |         |         |         |         |     | 4.9   | 11.6            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 2.2   |                 |
|                      | 8.9   | 29.5  | 38.1   | 16.3    | 4.1     | 1.0     |         |         |         |         |     | 100.0 | 8.1             |

TOTAL NUMBER OF OBSERVATIONS 2095

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FD  
STATION NAME

43-66  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | .7    | 1.5    | 1.3     | .7      | .1      | .0      |         |         |         |      | 4.5   | 11.5                  |
| NNE                     | .0    | .8    | 1.8    | 1.7     | .3      | .0      | .0      |         |         |         |      | 4.7   | 10.5                  |
| NE                      | .3    | 1.1   | 2.2    | 1.8     | .2      | .0      |         |         |         |         |      | 5.4   | 9.3                   |
| ENE                     | .2    | 1.0   | 1.8    | 1.3     | .1      |         |         |         |         |         |      | 4.5   | 9.2                   |
| E                       | .3    | 1.1   | 2.1    | 1.1     | .1      | .2      |         |         |         |         |      | 4.2   | 9.2                   |
| ESE                     | .2    | 1.7   | 4.1    | 1.9     | .2      |         |         |         |         |         |      | 8.1   | 8.7                   |
| SE                      | .2    | 1.9   | 6.9    | 4.0     | 1.0     | .1      |         |         |         |         |      | 14.0  | 10.2                  |
| SSE                     | .7    | 2.0   | 6.8    | 5.5     | 2.0     | .4      |         |         |         |         |      | 17.4  | 10.9                  |
| S                       | .5    | 1.5   | 4.3    | 4.3     | 1.9     | .1      |         |         |         |         |      | 12.6  | 11.1                  |
| SSW                     | .3    | 1.2   | 2.7    | 1.7     | 1.1     | .4      | .0      |         |         |         |      | 7.4   | 11.0                  |
| SW                      | .3    | .9    | 1.2    | .9      | .3      | .0      |         |         |         |         |      | 3.7   | 9.3                   |
| WSW                     | .1    | .4    | .4     | .4      | .1      |         | .0      |         |         |         |      | 1.5   | 9.8                   |
| W                       | .2    | .8    | .3     | .2      | .2      | .0      |         |         |         |         |      | 1.6   | 9.1                   |
| WNW                     | .1    | .3    | .7     | .7      | .2      | .1      |         |         |         |         |      | 2.2   | 10.8                  |
| NW                      | .2    | .3    | .9     | .6      | .3      | .2      |         |         |         |         |      | 2.8   | 10.7                  |
| NNW                     | .4    | .7    | 1.2    | 1.0     | .9      | .2      |         |         |         |         |      | 4.3   | 11.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .3    |                       |
|                         | 4.4   | 16.2  | 38.9   | 28.3    | 9.4     | 2.1     | .2      |         |         |         |      | 100.0 | 10.3                  |

TOTAL NUMBER OF OBSERVATIONS

2093

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-66 YEARS JUL NORTH  
ALL WEATHER CLASS 1500-1700 HOURS (LST.)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .2    | .8    | 1.7    | 1.7     | .8      | .1      |         |         |         |         |     | 5.1   | 11.2                  |
| NNE                     | .1    | 1.1   | 1.8    | 2.0     | .6      | .3      | .0      |         |         |         |     | 9.9   | 11.3                  |
| NE                      | .1    | 1.1   | 2.0    | 1.5     | .6      | .2      |         |         |         |         |     | 9.4   | 10.6                  |
| ENE                     | .1    | .8    | 2.3    | .9      | .3      | .1      |         |         |         |         |     | 4.5   | 9.8                   |
| E                       | .1    | 1.1   | 2.3    | 1.2     | .1      |         |         |         |         |         |     | 4.8   | 9.1                   |
| ESE                     | .1    | 1.5   | 3.0    | 2.3     | .4      | .0      |         |         |         |         |     | 7.3   | 9.9                   |
| SE                      | .2    | 1.0   | 4.7    | 3.4     | .3      | .1      |         |         |         |         |     | 10.3  | 9.9                   |
| SSE                     | .3    | 1.3   | 4.6    | 4.7     | 1.9     | .1      |         |         |         |         |     | 13.1  | 11.4                  |
| S                       | .2    | 1.2   | 3.7    | 3.1     | .5      | .1      |         |         |         |         |     | 8.7   | 10.5                  |
| SSW                     | .2    | .9    | 2.8    | 1.3     | .7      | .3      | .0      |         |         |         |     | 6.3   | 10.9                  |
| SW                      | .1    | 1.1   | 1.6    | 1.2     | .0      | .1      |         |         |         |         |     | 4.2   | 9.0                   |
| WSW                     | .2    | .5    | .9     | .1      | .0      | .1      |         |         |         |         |     | 1.4   | 7.9                   |
| W                       | .1    | 1.0   | 1.1    | .8      | .1      | .1      |         | .0      |         |         |     | 3.4   | 10.1                  |
| WNW                     | .1    | .6    | 1.4    | 1.0     | .6      | .2      |         |         |         |         |     | 4.0   | 11.3                  |
| NW                      | .3    | 1.3   | 2.5    | 1.7     | .6      | .2      | .0      |         |         |         |     | 6.6   | 10.4                  |
| NNW                     | .2    | .6    | 2.3    | 2.9     | 1.9     | .3      | .1      |         |         |         |     | 8.4   | 13.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | .5    |                       |
|                         | 2.6   | 16.8  | 38.1   | 29.7    | 9.3     | 2.5     | .3      | .0      |         |         |     | 100.0 | 10.6                  |

TOTAL NUMBER OF OBSERVATIONS 2099

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037

COLORADO SPRINGS COLORADO-PETERSON FD

43-53

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .3    | 1.9   | 3.6    | 4.3     | .7      | .5      |         |         |         |         |     | 9.3   | 10.3                  |
| NNE                     | .3    | 1.9   | 2.5    | 1.5     | .6      | .1      |         |         |         |         |     | 6.8   | 9.7                   |
| NE                      | .2    | 1.2   | 2.5    | 1.4     | .2      | .0      |         |         |         |         |     | 5.6   | 9.2                   |
| ENE                     | .3    | 1.2   | 2.1    | 1.2     | .2      | .0      |         |         |         |         |     | 5.2   | 8.8                   |
| E                       | .4    | 1.5   | 2.5    | .9      | .1      | .0      |         |         |         |         |     | 5.4   | 8.2                   |
| ESE                     | .0    | 1.8   | 2.9    | 1.2     | .1      |         |         |         |         |         |     | 6.1   | 8.2                   |
| SE                      | .2    | 1.9   | 4.7    | 2.1     | .1      | .1      | .0      |         |         |         |     | 9.2   | 9.0                   |
| SSE                     | .1    | 1.8   | 3.7    | 1.4     | .2      | .1      |         |         |         |         |     | 7.3   | 8.9                   |
| S                       | .3    | 1.6   | 3.4    | .9      | .2      | .1      |         |         |         |         |     | 6.3   | 8.6                   |
| SSW                     | .3    | 1.1   | 1.3    | .6      | .2      |         |         |         |         |         |     | 3.5   | 8.2                   |
| SW                      | .1    | 1.2   | .9     | .3      | .2      | .0      |         |         |         |         |     | 2.9   | 8.7                   |
| WSW                     | .3    | .9    | .4     |         |         | .0      |         |         |         |         |     | 1.6   | 6.2                   |
| W                       | .3    | .0    | .9     | .2      | .1      | .1      |         |         |         |         |     | 2.5   | 7.6                   |
| WNW                     | .3    | 1.5   | 1.8    | .8      | .4      | .1      |         |         |         |         |     | 4.9   | 9.3                   |
| NW                      | .4    | 2.2   | 4.1    | 2.2     | .6      | .1      | .0      |         |         |         |     | 9.7   | 9.7                   |
| NNW                     | .5    | 2.3   | 4.5    | 3.0     | 1.3     | .6      | .0      |         |         |         |     | 12.3  | 10.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.1   |                       |
|                         | 4.3   | 25.0  | 41.8   | 20.2    | 5.6     | 1.9     | .1      |         |         |         |     | 100.0 | 9.1                   |

TOTAL NUMBER OF OBSERVATIONS

2106

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28001

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLDRAOD SPRINGS COLD-PETERSON FD 43-65 JUL  
STATION NAME YEARS MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

| SPD<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                     | .7    | 4.0   | 6.7    | 2.2     | .3      |         | .0      |         |         |         |      | 14.0  | 8.1                   |
| NNE                   | .6    | 2.9   | 5.1    | 1.6     | .3      | .0      |         |         |         |         |      | 10.5  | 8.1                   |
| NE                    | .5    | 3.1   | 2.8    | .5      | .2      |         |         |         |         |         |      | 7.1   | 7.2                   |
| ENE                   | .4    | 2.5   | 2.1    | .5      |         |         |         |         |         |         |      | 5.6   | 6.9                   |
| E                     | .4    | 2.9   | 2.5    | .5      |         |         |         |         |         |         |      | 6.3   | 6.7                   |
| ESE                   | .7    | 2.3   | 2.4    | .5      |         |         |         |         |         |         |      | 5.9   | 6.7                   |
| SE                    | .5    | 2.1   | 2.3    | .5      |         |         |         |         |         |         |      | 5.5   | 6.9                   |
| SSE                   | .2    | 2.5   | 2.6    | .3      | .0      |         |         |         |         |         |      | 5.7   | 6.9                   |
| S                     | .5    | 1.7   | 1.2    | .2      |         |         |         |         |         |         |      | 3.6   | 6.4                   |
| SSW                   | .2    | .8    | .5     | .2      |         |         |         |         |         |         |      | 1.7   | 6.6                   |
| SW                    | .1    | .5    | .3     | .3      | .0      |         |         |         |         |         |      | 1.2   | 6.0                   |
| WSW                   | .3    | .3    | .1     | .1      | .0      |         |         |         |         |         |      | 1.0   | 6.8                   |
| W                     | .1    | .9    | .4     | .0      |         |         |         |         |         |         |      | 1.5   | 6.0                   |
| WNW                   | .3    | 1.3   | 1.0    | .4      | .1      | .0      |         |         |         |         |      | 3.2   | 7.7                   |
| NW                    | .2    | 3.2   | 4.1    | 1.6     | .4      | .1      |         |         |         |         |      | 9.8   | 8.2                   |
| NNW                   | .7    | 3.1   | 7.0    | 3.6     | .9      | .3      |         |         |         |         |      | 15.6  | 9.5                   |
| VACBL                 |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                  |       |       |        |         |         |         |         |         |         |         |      | 1.8   |                       |
|                       | 8.8   | 34.0  | 41.2   | 13.3    | 2.4     | .5      | .0      |         |         |         |      | 100.0 | 7.6                   |

TOTAL NUMBER OF OBSERVATIONS 2798

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-68  
STATION NAME CLASS YEARS MONTH  
ALL WEATHER ALL  
CONDITION HOURS (LST)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .5    | 3.3   | 5.1    | 1.8     | .6      | .1      | .0      |         |         |         |     | 11.5  | 8.6                   |
| NNE                     | .4    | 3.0   | 4.0    | 1.3     | .3      | .1      | .0      |         |         |         |     | 9.1   | 8.1                   |
| NE                      | .5    | 2.5   | 2.5    | .8      | .2      | .0      |         |         |         |         |     | 6.5   | 7.5                   |
| ENE                     | .4    | 1.6   | 1.6    | .6      | .1      | .0      |         |         |         |         |     | 4.3   | 7.5                   |
| E                       | .5    | 1.8   | 1.7    | .5      | .0      | .0      |         |         |         |         |     | 4.6   | 7.1                   |
| ESE                     | .5    | 2.2   | 2.3    | .8      | .1      | .0      |         |         |         |         |     | 5.9   | 7.5                   |
| SE                      | .7    | 2.5   | 4.0    | 1.7     | .2      | .0      | .0      |         |         |         |     | 9.1   | 8.3                   |
| SSE                     | .5    | 2.2   | 3.9    | 2.2     | .7      | .1      |         |         |         |         |     | 9.5   | 9.4                   |
| S                       | .5    | 1.6   | 2.6    | 1.4     | .4      | .1      |         |         |         |         |     | 6.5   | 9.0                   |
| SSW                     | .4    | 1.1   | 1.2    | .6      | .3      | .1      | .0      |         |         |         |     | 3.7   | 8.6                   |
| SW                      | .3    | .8    | .7     | .4      | .1      | .0      |         |         |         |         |     | 2.2   | 7.7                   |
| WSW                     | .2    | .5    | .2     | .1      | .0      | .0      | .0      |         |         |         |     | 1.1   | 6.6                   |
| W                       | .3    | .8    | .4     | .2      | .1      | .0      |         | .0      |         |         |     | 1.8   | 7.3                   |
| WNW                     | .4    | 1.0   | .9     | .5      | .2      | .1      |         |         |         |         |     | 3.0   | 8.2                   |
| W                       | .6    | 2.1   | 2.7    | 1.1     | .4      | .1      | .0      |         |         |         |     | 7.0   | 8.6                   |
| NNW                     | .6    | 2.5   | 4.8    | 2.6     | 1.1     | .4      | .0      |         |         |         |     | 11.9  | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.1   |                       |
|                         | 7.3   | 29.6  | 38.5   | 18.5    | 4.7     | 1.2     | .1      | .0      |         |         |     | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 16776

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLB-PETERSON FD YEARS 43-68 MONTH AUG  
CLASS ALL WEATHER MONTH 0000-0200  
CONDITION

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                        | 1.2   | 6.2   | 10.8   | 2.0     | .5      | .0      |         |         |         |         |     | 20.7  | 7.7                   |
| NNE                      | 1.0   | 6.0   | 7.5    | .7      | .0      |         |         |         |         |         |     | 15.2  | 6.9                   |
| NE                       | 1.0   | 5.8   | 5.1    | .2      | .0      |         |         |         |         |         |     | 12.1  | 6.3                   |
| ENE                      | .6    | 2.9   | 1.8    | .1      |         |         |         |         |         |         |     | 5.3   | 6.0                   |
| E                        | .6    | 2.4   | 1.4    | .0      |         |         |         |         |         |         |     | 4.4   | 5.5                   |
| ESE                      | .4    | 1.2   | 1.0    | .2      |         |         |         |         |         |         |     | 3.0   | 6.2                   |
| SE                       | .5    | 1.3   | 1.8    | .4      |         |         |         |         |         |         |     | 4.2   | 6.8                   |
| SSE                      | .1    | 1.2   | 1.4    | .4      | .0      |         |         |         |         |         |     | 3.2   | 7.6                   |
| S                        | .4    | 1.0   | .8     | .0      | .1      |         |         |         |         |         |     | 2.2   | 6.3                   |
| SSW                      | .3    | .4    | .3     | .1      |         |         |         |         |         |         |     | 1.1   | 6.4                   |
| SW                       | .4    | .4    | .2     | .1      |         |         |         |         |         |         |     | 1.1   | 5.6                   |
| WSW                      | .2    | .4    |        |         |         |         |         |         |         |         |     | .6    | 4.2                   |
| W                        | .2    | .6    | .2     | .0      |         |         |         |         |         |         |     | 1.1   | 5.7                   |
| WNW                      | .4    | 1.2   | .3     | .0      | .0      | .0      |         |         |         |         |     | 2.0   | 6.0                   |
| NW                       | .6    | 3.2   | 3.2    | .5      | .1      | .0      | .1      |         |         |         |     | 7.6   | 7.3                   |
| NNW                      | .8    | 4.0   | 6.7    | 1.8     | .7      | .3      |         |         |         |         |     | 14.3  | 8.5                   |
| VARBL                    |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                     |       |       |        |         |         |         |         |         |         |         |     | 1.8   |                       |
|                          | 8.6   | 38.5  | 42.5   | 6.5     | 1.6     | .5      | .1      |         |         |         |     | 100.0 | 6.9                   |

TOTAL NUMBER OF OBSERVATIONS 2095

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-68 AUG  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
0300-0500  
HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .8    | 6.6   | 12.9   | 2.3     | .7      | .0      |         |         |         |         |     | 23.4  | 7.9                   |
| NNE                     | 1.3   | 7.0   | 10.9   | .8      | .1      |         |         |         |         |         |     | 20.1  | 6.9                   |
| NE                      | .9    | 5.0   | 4.1    | .1      |         |         |         |         |         |         |     | 10.1  | 6.1                   |
| ENE                     | .4    | 2.6   | .9     |         |         |         |         |         |         |         |     | 4.1   | 5.3                   |
| E                       | .4    | 1.6   | .5     |         |         |         |         |         |         |         |     | 2.5   | 5.2                   |
| ESE                     | .4    | 1.6   | .8     | .0      |         |         |         |         |         |         |     | 2.8   | 5.6                   |
| SE                      | .1    | 1.2   | 1.6    | .0      |         |         |         |         |         |         |     | 3.0   | 6.6                   |
| SSE                     | .4    | .8    | 1.4    | .3      |         |         |         |         |         |         |     | 2.9   | 7.2                   |
| S                       | .1    | .7    | .4     | .1      | .0      |         |         |         |         |         |     | 1.3   | 6.6                   |
| SSW                     | .1    | .2    | .1     | .0      |         |         |         |         |         |         |     | .5    | 6.4                   |
| SW                      | .0    | .3    | .1     |         |         |         |         |         |         |         |     | .5    | 5.3                   |
| WSW                     | .2    | .3    |        |         |         |         |         |         |         |         |     | .5    | 4.3                   |
| W                       | .3    | .4    | .1     |         |         |         |         |         |         |         |     | .9    | 4.4                   |
| WNW                     | .2    | .7    | .6     | .1      |         |         |         |         |         |         |     | 1.6   | 6.3                   |
| NW                      | .7    | 2.7   | 2.5    | .8      | .1      | .1      | .0      |         |         |         |     | 7.0   | 7.7                   |
| NNW                     | .6    | 4.3   | 7.0    | 3.1     | .9      | .4      |         |         |         |         |     | 16.2  | 9.2                   |
| VARRL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.6   |                       |
|                         | 7.3   | 35.9  | 43.9   | 7.8     | 1.9     | .6      | .0      |         |         |         |     | 100.0 | 7.1                   |

TOTAL NUMBER OF OBSERVATIONS 2093

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS AUG MONTH 0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | 1.1   | 5.2   | 5.9    | 2.4     | .5      | .3      |         |         |         |         |     | 15.3  | 8.1             |
| NNE                  | 1.5   | 4.6   | 2.9    | .5      | .2      |         |         |         |         |         |     | 9.8   | 6.2             |
| NE                   | 1.1   | 3.7   | 1.1    | .1      |         |         |         |         |         |         |     | 6.0   | 5.2             |
| ENE                  | .8    | 2.6   | .5     |         |         |         |         |         |         |         |     | 3.8   | 4.8             |
| E                    | 1.1   | 2.9   | .8     |         |         |         |         |         |         |         |     | 4.8   | 4.8             |
| ESE                  | .9    | 2.1   | 1.0    | .1      | .0      |         |         |         |         |         |     | 4.3   | 5.5             |
| SE                   | .8    | 3.1   | 1.6    | .1      | .1      |         |         |         |         |         |     | 5.7   | 5.9             |
| SSE                  | .7    | 2.2   | 1.6    | .5      | .1      |         |         |         |         |         |     | 5.1   | 6.8             |
| S                    | .8    | 1.7   | 1.0    | .3      | .1      |         |         |         |         |         |     | 4.0   | 6.3             |
| SSW                  | .3    | 1.0   | .2     | .1      | .0      |         |         |         |         |         |     | 1.7   | 5.7             |
| SW                   | .7    | 1.2   | .1     |         |         |         |         |         |         |         |     | 1.9   | 4.1             |
| WSW                  | .4    | .5    |        | .0      |         |         |         |         |         |         |     | .9    | 4.3             |
| W                    | 1.0   | .9    | .3     | .0      |         |         |         |         |         |         |     | 2.3   | 4.5             |
| WNW                  | .9    | 1.8   | .4     | .1      |         |         |         |         |         |         |     | 3.3   | 5.0             |
| NW                   | 1.4   | 2.6   | 2.0    | .9      | .3      | .1      |         |         |         |         |     | 7.3   | 7.4             |
| NNW                  | 1.2   | 3.2   | 7.1    | 2.8     | 1.3     | .3      | .1      |         |         |         |     | 18.0  | 9.0             |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 5.9   |                 |
|                      | 14.7  | 41.2  | 26.5   | 5.1     | 2.7     | .8      | .1      |         |         |         |     | 100.0 | 6.4             |

TOTAL NUMBER OF OBSERVATIONS 2116

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 43-68 AUG  
STATION STATION NAME YEARS MONTH  
ALL WEATHER 0900-1100  
CLASS NOTES (L.S.T.)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .2    | .9    | 2.8    | 2.7     | .9      | .2      |         |         |         |         |     | 7.7   | 11.3                  |
| NNE                     | .5    | 1.3   | 2.0    | 1.0     | .1      |         |         |         |         |         |     | 5.0   | 8.0                   |
| NE                      | .4    | .9    | 1.9    | .8      |         |         |         |         |         |         |     | 4.0   | 7.7                   |
| ENE                     | .3    | 1.0   | 1.5    | .2      |         |         |         |         |         |         |     | 3.0   | 6.8                   |
| E                       | .5    | 1.8   | 1.0    | .2      | .0      |         |         |         |         |         |     | 3.7   | 5.9                   |
| ESE                     | .9    | 3.0   | 2.9    | .4      |         |         |         |         |         |         |     | 7.1   | 6.5                   |
| SE                      | 1.5   | 3.9   | 5.5    | 1.9     | .4      |         |         |         |         |         |     | 13.3  | 7.7                   |
| SSE                     | 1.4   | 3.4   | 8.3    | 2.5     | .6      |         |         |         |         |         |     | 16.3  | 8.3                   |
| S                       | 1.2   | 3.6   | 3.3    | 1.5     | .3      |         |         |         |         |         |     | 11.9  | 7.6                   |
| SSW                     | .8    | 2.3   | 2.0    | .3      |         |         |         |         |         |         |     | 5.7   | 6.4                   |
| SW                      | 1.0   | 1.7   | .8     | .2      |         |         |         |         |         |         |     | 3.6   | 5.5                   |
| WSW                     | .2    | .5    | .2     | .1      |         |         |         |         |         |         |     | 1.2   | 6.0                   |
| W                       | .4    | .4    | .3     |         | .0      |         |         |         |         |         |     | 1.2   | 5.4                   |
| WNW                     | .2    | 1.1   | .7     | .3      |         | .0      |         |         |         |         |     | 2.4   | 7.1                   |
| NW                      | .8    | .8    | 1.3    | .4      | .0      |         |         |         |         |         |     | 3.3   | 7.1                   |
| NNW                     | .5    | 1.1   | 2.1    | 1.8     | 1.0     | .4      |         |         |         |         |     | 6.9   | 11.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 3.8   |                       |
|                         | 11.0  | 26.2  | 38.8   | 14.2    | 3.5     | .6      |         |         |         |         |     | 100.0 | 7.6                   |

TOTAL NUMBER OF OBSERVATIONS 2104

DATA PROCESSING DIVISION  
ETAG, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

|             |                                   |       |                |
|-------------|-----------------------------------|-------|----------------|
| STATION     | STATION NAME                      | YEARS | AUG            |
| 93037       | COLORADO SPRINGS COLO-PETERSON FD | 43-68 |                |
| ALL WEATHER |                                   |       | 1200-1400      |
| CLASS       |                                   |       | HOURS (L S T.) |
| CONDITION   |                                   |       |                |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .3    | .8    | 1.5    | 1.7     | .5      | .1      | .0      |         |         |         |     | 5.0   | 10.9                  |
| NNE                     | .0    | .7    | 1.9    | 1.4     | .2      | .0      |         |         |         |         |     | 4.3   | 10.0                  |
| NE                      | .1    | .9    | 3.2    | 1.3     | .2      |         |         |         |         |         |     | 3.8   | 9.4                   |
| ENE                     | .5    | 1.2   | 2.2    | .8      | .1      |         |         |         |         |         |     | 4.9   | 7.9                   |
| E                       | .2    | 1.5   | 2.1    | .5      | .1      |         |         |         |         |         |     | 4.4   | 7.7                   |
| ESE                     | .3    | 1.9   | 3.9    | 1.1     | .1      |         |         |         |         |         |     | 7.3   | 8.1                   |
| SE                      | .4    | 2.2   | 6.0    | 3.7     | .7      | .0      |         |         |         |         |     | 13.2  | 9.7                   |
| SSE                     | .4    | 2.7   | 7.1    | 5.5     | 1.2     | .0      |         |         |         |         |     | 17.0  | 10.2                  |
| S                       | .3    | 1.7   | 5.7    | 3.6     | 1.1     | .0      |         |         |         |         |     | 12.5  | 10.3                  |
| SSW                     | .2    | 1.6   | 3.0    | 2.0     | .5      | .0      | .0      |         |         |         |     | 7.6   | 9.8                   |
| SW                      | .4    | 1.0   | 1.1    | .6      | .3      |         |         |         |         |         |     | 3.4   | 8.3                   |
| WSW                     | .2    | .9    | .9     | .1      | .1      |         |         |         |         |         |     | 2.2   | 7.3                   |
| W                       | .1    | .4    | .6     | .3      | .2      | .0      | .0      |         |         |         |     | 1.7   | 10.3                  |
| WNW                     | .0    | .2    | .9     | .4      | .1      | .1      |         |         |         |         |     | 1.8   | 11.0                  |
| NW                      | .1    | .9    | 1.3    | .7      | .3      |         |         |         |         |         |     | 3.3   | 9.2                   |
| NNW                     | .1    | .7    | 1.3    | 1.3     | .7      | .1      | .0      |         |         |         |     | 4.3   | 11.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     | 1.3   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     |       |                       |
|                         | 4.0   | 19.1  | 42.9   | 25.2    | 6.7     | .6      | .2      |         |         |         |     | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-66 YEARS AUG MONTH 1500-1700 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .0    | .7    | 2.0    | 1.9     | .6      | .1      | .1      |         |         |         |     | 5.4   | 11.7            |
| NNE               |       | .6    | 1.7    | 1.1     | .3      | .2      |         |         |         |         |     | 3.9   | 11.1            |
| NE                | .1    | 1.1   | 2.1    | 1.4     | .6      | .0      |         |         |         |         |     | 5.4   | 10.3            |
| ENE               | .3    | .3    | 2.0    | 1.1     | .1      |         |         |         |         |         |     | 4.4   | 8.9             |
| E                 | .2    | 1.1   | 2.7    | .7      | .2      | .0      |         |         |         |         |     | 5.0   | 8.7             |
| ESE               |       | 1.1   | 2.7    | 1.1     | .2      |         |         |         |         |         |     | 5.1   | 7.1             |
| SE                | .4    | 1.7   | 6.1    | 4.1     | 1.0     |         |         |         |         |         |     | 13.3  | 10.2            |
| SSE               | .3    | 1.4   | 5.0    | 5.3     | 1.1     | .1      |         |         |         |         |     | 13.1  | 10.5            |
| S                 | .3    | 1.5   | 4.7    | 3.8     | 1.1     | .1      |         |         |         |         |     | 11.5  | 10.5            |
| SSW               | .1    | 1.2   | 2.7    | 1.9     | 1.0     | .0      |         |         |         |         |     | 6.9   | 10.7            |
| SW                | .3    | 1.1   | 1.0    | .8      | .2      | .1      |         |         |         |         |     | 3.6   | 8.8             |
| WSW               | .2    | .7    | .6     | .3      | .2      |         |         | .0      |         |         |     | 2.1   | 9.0             |
| W                 | .2    | 1.0   | 1.3    | .2      | .2      | .1      |         |         |         |         |     | 3.0   | 8.8             |
| WNW               | .2    | .5    | 1.2    | .9      | .3      | .1      |         |         |         |         |     | 3.5   | 11.1            |
| NW                | .4    | 1.6   | 2.6    | 1.3     | .5      | .1      |         |         |         |         |     | 6.8   | 9.4             |
| NNW               | .1    | .9    | 1.9    | 2.4     | .3      | .5      |         |         |         |         |     | 6.5   | 12.1            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | .4    |                 |
|                   | 3.2   | 17.0  | 40.2   | 26.5    | 6.8     | 1.7     | .1      | .0      |         |         |     | 100.0 | 10.2            |

TOTAL NUMBER OF OBSERVATIONS 2093

DATA PROCESSING DIVISION  
 ECAF, USAF  
 ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

91037 STATION COLORADO SPRINGS COLO-PETERSON FD 43-68 YEARS AUG NORTH  
 1800-2000 HOURS (L.S.T.)  
 ALL WEATHER CLASS  
 CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .3    | 2.3   | 3.8    | 2.3     | 1.0     | .3      | .0      |         |         |         |     | 10.1  | 10.1            |
| NNE               | .3    | 1.1   | 2.8    | 1.5     | .2      | .0      |         |         |         |         |     | 5.9   | 9.4             |
| NE                | .2    | 1.7   | 2.3    | .8      | .1      |         |         |         |         |         |     | 5.2   | 7.9             |
| ENE               | .1    | 1.5   | 2.7    | .6      | .0      | .0      |         |         |         |         |     | 4.9   | 8.0             |
| E                 | .3    | 2.0   | 2.5    | .9      | .0      |         |         |         |         |         |     | 5.4   | 7.3             |
| ESE               | .3    | 2.2   | 3.9    | .8      | .1      |         |         |         |         |         |     | 7.2   | 7.7             |
| SE                | .3    | 2.3   | 6.4    | 1.2     | .0      |         |         |         |         |         |     | 10.2  | 8.1             |
| SSE               | .6    | 2.0   | 4.4    | 1.5     | .0      |         |         |         |         |         |     | 8.5   | 8.2             |
| S                 | .5    | 1.5   | 3.2    | 1.0     | .3      |         |         |         |         |         |     | 6.2   | 8.4             |
| SSW               | .4    | 2.1   | 1.5    | .7      | .1      |         |         |         |         |         |     | 4.8   | 7.3             |
| SW                | .3    | 1.3   | 1.1    | .1      | .2      |         |         |         |         |         |     | 3.1   | 7.2             |
| WSW               |       | .9    | .8     | .2      |         |         |         |         |         |         |     | 1.9   | 7.1             |
| W                 | .2    | .6    | .7     | .3      | .0      |         |         |         |         |         |     | 1.9   | 8.0             |
| WNW               | .2    | 1.4   | 1.3    | .6      | .4      | .0      |         |         |         |         |     | 4.0   | 8.7             |
| NW                | .6    | 1.8   | 3.8    | 1.2     | .4      | .0      |         |         |         |         |     | 7.8   | 8.6             |
| NNW               | .5    | 2.7   | 4.6    | 2.0     | 1.0     | .3      | .1      |         |         |         |     | 11.7  | 10.0            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | 1.1   |                 |
|                   | 4.9   | 27.4  | 45.6   | 15.9    | 4.1     | .8      | .1      |         |         |         |     | 100.0 | 8.4             |

TOTAL NUMBER OF OBSERVATIONS 2102

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

|             |                                   |       |                |
|-------------|-----------------------------------|-------|----------------|
| 93037       | COLORADO SPRINGS COLO-PETERSON FD | 43-66 | AUG            |
| STATION     | STATION NAME                      | YEARS | MONTH          |
| ALL WEATHER |                                   |       | 2100-2300      |
| CLASS       |                                   |       | HOURS (L.S.T.) |
| CONDITION   |                                   |       |                |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 4.8   | 8.0    | 2.5     | .6      | .1      |         |         |         |         |     | 16.7  | 8.3                   |
| NNE                     | .6    | 4.3   | 4.5    | .8      | .1      |         |         |         |         |         |     | 10.3  | 7.1                   |
| NE                      | .9    | 4.8   | 3.3    | .4      | .0      |         |         |         |         |         |     | 9.4   | 6.3                   |
| ENE                     | .6    | 2.7   | 1.7    | .2      |         |         |         |         |         |         |     | 5.2   | 5.9                   |
| E                       | .8    | 2.1   | 2.6    | .3      | .0      |         |         |         |         |         |     | 5.9   | 6.8                   |
| ESE                     | .3    | 2.1   | 1.9    | .2      |         |         |         |         |         |         |     | 4.6   | 5.7                   |
| SE                      | .7    | 2.2   | 2.7    | .8      | .1      |         |         |         |         |         |     | 6.0   | 6.7                   |
| SSE                     | .5    | 1.9   | 2.1    | .6      |         |         |         |         |         |         |     | 5.1   | 7.3                   |
| S                       | .4    | 1.2   | 1.5    | .3      | .0      |         |         |         |         |         |     | 3.5   | 7.0                   |
| SSW                     | .1    | .9    | .8     | .1      | .0      |         |         |         |         |         |     | 2.0   | 7.0                   |
| SW                      | .3    | .7    | .4     | .2      |         |         |         |         |         |         |     | 1.5   | 6.5                   |
| WSW                     | .1    | .4    | .2     |         |         |         |         |         |         |         |     | .7    | 5.5                   |
| W                       | .3    | .6    | .2     |         | .0      |         |         |         |         |         |     | 1.1   | 5.5                   |
| WNW                     | .5    | 1.6   | .8     | .3      | .0      |         |         |         |         |         |     | 3.3   | 6.4                   |
| NW                      | .5    | 2.0   | 3.4    | 1.2     | .1      |         |         |         |         |         |     | 8.2   | 7.7                   |
| NNW                     | .4    | 4.0   | 7.0    | 2.6     | .9      | .1      |         |         |         |         |     | 15.0  | 9.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.7   |                       |
|                         | 7.5   | 37.4  | 41.0   | 10.0    | 2.2     | .2      |         |         |         |         |     | 100.0 | 7.2                   |

TOTAL NUMBER OF OBSERVATIONS 2106

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 43-68 MONTH AUG  
CLASS ALL WEATHER ALL  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .6    | 3.4   | 8.9    | 2.2     | .7      | .2      | .0      |         |         |         |     | 13.0  | 8.3             |
| NNE                  | .7    | 3.2   | 4.3    | 1.0     | .2      | .0      |         |         |         |         |     | 9.3   | 7.5             |
| NE                   | .5    | 3.0   | 2.9    | .6      | .1      | .0      |         |         |         |         |     | 7.2   | 7.1             |
| ENE                  | .5    | 1.9   | 1.7    | .4      | .0      | .0      |         |         |         |         |     | 4.5   | 6.7             |
| E                    | .5    | 1.9   | 1.7    | .3      | .1      | .0      |         |         |         |         |     | 4.5   | 6.6             |
| ESE                  | .5    | 1.9   | 2.2    | .5      | .1      |         |         |         |         |         |     | 5.2   | 7.1             |
| SE                   | .6    | 2.3   | 4.0    | 1.5     | .3      | .0      |         |         |         |         |     | 8.6   | 8.3             |
| SSE                  | .6    | 1.9   | 2.2    | 2.1     | .4      | .0      |         |         |         |         |     | 8.9   | 9.0             |
| S                    | .5    | 1.6   | 2.8    | 1.3     | .4      | .0      |         |         |         |         |     | 6.6   | 8.8             |
| SSW                  | .3    | 1.2   | 1.3    | .7      | .2      | .0      | .0      |         |         |         |     | 3.8   | 8.4             |
| SW                   | .4    | 1.0   | .6     | .3      | .1      | .0      |         |         |         |         |     | 2.3   | 6.9             |
| WSW                  | .2    | .6    | .3     | .1      | .0      |         |         | .0      |         |         |     | 1.3   | 6.7             |
| W                    | .4    | .6    | .5     | .1      | .1      | .0      | .0      |         |         |         |     | 1.6   | 7.0             |
| WNW                  | .3    | 1.1   | .8     | .4      | .1      | .0      |         |         |         |         |     | 2.7   | 7.8             |
| NW                   | .6    | 2.1   | 2.5    | .9      | .2      | .1      | .0      |         |         |         |     | 6.4   | 8.0             |
| NNW                  | .5    | 2.2   | 4.7    | 2.3     | .9      | .3      | .0      |         |         |         |     | 11.6  | 9.6             |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 2.3   |                 |
|                      | 7.7   | 30.6  | 40.1   | 14.5    | 3.9     | .7      | .1      | .0      |         |         |     | 100.0 | 7.9             |

TOTAL NUMBER OF OBSERVATIONS 16809

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-68 YEARS SEP MONTH 0000-0200 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .9    | 5.6   | 9.2    | 1.9     | 1.2     | .1      | .0      |         |         |         |     | 18.9  | 8.5                   |
| NNE                     | 1.0   | 3.9   | 10.0   | 1.2     | .1      |         |         |         |         |         |     | 18.2  | 7.1                   |
| NE                      | 1.1   | 5.2   | 4.0    | .0      |         |         |         |         |         |         |     | 10.3  | 6.0                   |
| ENE                     | .5    | 3.0   | 1.5    | .2      | .0      |         |         |         |         |         |     | 5.3   | 6.1                   |
| E                       | .5    | 2.3   | 1.8    | .3      |         |         |         |         |         |         |     | 4.9   | 6.3                   |
| ESE                     | .1    | 1.9   | 1.2    | .3      | .1      | .0      |         |         |         |         |     | 3.8   | 7.3                   |
| SE                      | .5    | 2.4   | 2.4    | .9      | .1      |         |         |         |         |         |     | 6.4   | 7.5                   |
| SSE                     | .7    | 1.3   | 1.5    | .8      |         |         |         |         |         |         |     | 4.2   | 7.2                   |
| S                       | .4    | 1.1   | .8     | .4      | .0      |         |         |         |         |         |     | 2.8   | 7.0                   |
| SSW                     | .1    | .4    | .2     | .1      |         |         |         |         |         |         |     | .8    | 6.7                   |
| SW                      | .1    | .2    | .0     | .0      |         |         |         |         |         |         |     | .5    | 5.2                   |
| WSW                     | .0    | .2    |        |         |         |         |         |         |         |         |     | .3    | 4.3                   |
| W                       | .2    | .3    | .1     | .0      |         |         |         |         |         |         |     | .7    | 5.4                   |
| WNW                     | .1    | .4    | .5     | .1      | .1      |         |         |         |         |         |     | 1.2   | 8.1                   |
| NW                      | .4    | 1.1   | 2.3    | 1.2     | .3      | .1      | .0      |         |         |         |     | 5.5   | 9.4                   |
| NNW                     | .3    | 2.9   | 7.2    | 2.7     | 1.1     | .6      | .0      |         |         |         |     | 14.9  | 10.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.3   |                       |
|                         | 7.1   | 34.2  | 42.7   | 10.5    | 3.1     | .9      | .1      |         |         |         |     | 100.0 | 7.7                   |

TOTAL NUMBER OF OBSERVATIONS 2125

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 42-68 MONTH SEP  
CLASS ALL WEATHER HOURS (LST) 0300-0500  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | 1.3   | 5.9   | 11.4   | 2.7     | .7      | .3      |         |         |         |         |      | 22.0  | 5.1                   |
| NNE                     | .7    | 7.3   | 9.1    | .8      | .3      | .1      |         |         |         |         |      | 18.3  | 7.2                   |
| NE                      | .8    | 4.3   | 3.7    | .1      |         |         |         |         |         |         |      | 9.0   | 6.0                   |
| ENE                     | .8    | 2.5   | .5     | .0      |         |         |         |         |         |         |      | 3.8   | 5.0                   |
| E                       | .6    | 1.9   | 1.2    | .1      | .0      |         |         |         |         |         |      | 3.8   | 6.1                   |
| ESE                     | .2    | 1.2   | 1.6    | .3      | .0      |         |         |         |         |         |      | 3.4   | 7.0                   |
| SE                      | .4    | 1.8   | 1.0    | .7      |         |         |         |         |         |         |      | 3.7   | 7.2                   |
| SSE                     | .3    | 1.2   | 1.5    | .8      | .1      | .1      |         |         |         |         |      | 4.0   | 8.2                   |
| S                       | .2    | 1.3   | .6     | .5      |         |         |         |         |         |         |      | 2.6   | 7.1                   |
| SSW                     | .1    | .2    | .3     | .0      |         |         |         |         |         |         |      | .7    | 6.5                   |
| SW                      | .2    | .2    | .2     | .1      |         |         |         |         |         |         |      | .7    | 5.9                   |
| WSW                     | .2    | .3    |        |         |         |         |         |         |         |         |      | .5    | 3.9                   |
| W                       | .3    | .5    | .3     | .0      | .0      |         |         |         |         |         |      | 1.2   | 6.2                   |
| WNW                     | .1    | .5    | .5     | .1      |         |         |         |         |         |         |      | 1.3   | 6.9                   |
| NW                      | .2    | 1.7   | 2.5    | 1.1     | .1      | .0      |         |         |         |         |      | 5.8   | 8.3                   |
| NNW                     | .3    | 3.1   | 5.1    | 3.2     | 1.2     | .9      | .2      |         |         |         |      | 17.1  | 10.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.0   |                       |
|                         | 6.6   | 34.1  | 42.5   | 10.8    | 2.8     | 1.2     | .2      |         |         |         |      | 100.0 | 7.6                   |

TOTAL NUMBER OF OBSERVATIONS 2123

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037  
STATION

COLORADO SPRINGS COLC-PETERSON FD  
STATION NAME

42-68  
YEARS

SEP  
MONTH

0600-0800  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | 1.0   | 5.1   | 5.3    | 1.6     | .9      | .1      |         |         |         |         |     | 14.0  | 8.0                   |
| NNE                     | 1.2   | 5.0   | 3.5    | .7      | .1      |         |         |         |         |         |     | 10.5  | 6.3                   |
| NE                      | .9    | 3.8   | 1.3    | .0      |         |         |         |         |         |         |     | 6.0   | 5.2                   |
| ENE                     | .8    | 1.5   | .4     |         |         |         |         |         |         |         |     | 2.6   | 4.8                   |
| E                       | 1.3   | 2.2   | .7     |         | .0      |         |         |         |         |         |     | 4.2   | 4.7                   |
| ESE                     | .9    | 2.3   | 1.3    | .1      | .2      | .0      |         |         |         |         |     | 5.2   | 6.7                   |
| SE                      | .8    | 1.8   | 2.4    | .1      | .1      |         |         |         |         |         |     | 5.5   | 7.1                   |
| SSE                     | 1.4   | 1.8   | 2.3    | 1.6     | .2      | .0      |         |         |         |         |     | 6.8   | 7.3                   |
| S                       | .6    | 1.5   | 1.3    | .5      | .3      | .0      |         |         |         |         |     | 4.4   | 7.4                   |
| SSW                     | .7    | 1.1   | .2     | .1      |         |         |         |         |         |         |     | 2.1   | 5.0                   |
| SW                      | 1.1   | 1.0   | .3     | .0      | .1      |         |         |         |         |         |     | 2.5   | 3.1                   |
| WSW                     | .5    | .5    | .0     |         |         |         |         |         |         |         |     | 1.1   | 4.0                   |
| W                       | .8    | .7    | .2     | .1      |         |         |         |         |         |         |     | 1.8   | 4.8                   |
| WNW                     | .6    | 1.3   | .8     | .1      | .2      |         |         |         |         |         |     | 3.0   | 6.5                   |
| NW                      | .8    | 2.6   | 2.8    | .4      | .7      | .2      |         |         |         |         |     | 7.6   | 8.2                   |
| NNW                     | 1.0   | 4.1   | 6.1    | 3.9     | 1.2     | .7      | .3      |         |         |         |     | 17.2  | 10.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 5.5   |                       |
|                         | 14.7  | 36.2  | 28.9   | 9.3     | 4.0     | 1.1     | .3      |         |         |         |     | 100.0 | 6.9                   |

TOTAL NUMBER OF OBSERVATIONS

2130

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FC YEARS 42-58 MONTH SEP  
CLASS ALL WEATHER HOURS (LST.) 0900-1100  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .5    | 1.2   | 1.6    | 2.3     | .5      | .3      |         |         |         |         |     | 6.5   | 10.9                  |
| NNE                     | .2    | .9    | 1.4    | 1.0     | .4      | .0      |         |         |         |         |     | 3.9   | 9.8                   |
| NE                      | .4    | .9    | .9     | .3      | .0      |         |         |         |         |         |     | 2.6   | 7.2                   |
| ENE                     | .3    | 1.3   | 1.0    | .3      |         |         |         |         |         |         |     | 2.9   | 6.8                   |
| E                       | .5    | 1.1   | 1.1    | .3      | .1      |         |         |         |         |         |     | 3.1   | 6.7                   |
| ESE                     | .8    | 2.6   | 2.4    | .5      | .3      |         |         |         |         |         |     | 6.5   | 7.1                   |
| SE                      | 1.5   | 4.2   | 5.6    | 1.6     | .6      |         |         |         |         |         |     | 13.6  | 7.7                   |
| SSE                     | 1.4   | 4.3   | 9.0    | 4.0     | 1.5     | .2      |         |         |         |         |     | 20.4  | 9.1                   |
| S                       | 1.2   | 3.0   | 4.2    | 2.4     | .7      |         |         |         |         |         |     | 11.4  | 8.4                   |
| SSW                     | 1.1   | 2.8   | 2.6    | .9      | .5      | .1      |         |         |         |         |     | 8.1   | 7.9                   |
| SW                      | .4    | 1.3   | .8     | .5      | .2      |         | .0      |         |         |         |     | 3.3   | 7.6                   |
| WSW                     | .3    | .7    | .4     | .3      |         |         |         |         |         |         |     | 1.7   | 7.0                   |
| W                       | .5    | .6    | .3     | .0      | .1      |         |         |         |         |         |     | 1.4   | 6.5                   |
| WNW                     | .3    | .8    | .3     | .4      | .2      | .0      | .0      |         |         |         |     | 2.1   | 8.6                   |
| NW                      | .3    | .8    | 1.2    | .7      | .3      |         |         |         |         |         |     | 3.3   | 8.9                   |
| NNW                     | .3    | .8    | 2.2    | 1.8     | .8      | .2      | .2      |         |         |         |     | 6.4   | 11.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.6   |                       |
|                         | 9.8   | 27.3  | 35.1   | 17.3    | 6.5     | .9      | .3      |         |         |         |     | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS 2124

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-58 YEARS SEP MONTH 1200-1400 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .1    | .6    | 1.1    | 1.2     | .5      | .1      |         |         |         |         |     | 3.6   | 11.5                  |
| NNE                     | .1    | 1.0   | 1.4    | 1.6     | .3      |         |         |         |         |         |     | 4.4   | 10.0                  |
| NE                      | .0    | .5    | 1.6    | .7      | .1      |         |         |         |         |         |     | 2.9   | 9.2                   |
| ENE                     | .3    | .8    | 1.4    | .6      |         |         |         |         |         |         |     | 3.2   | 7.6                   |
| E                       | .5    | 1.2   | 1.1    | .6      | .0      |         |         |         |         |         |     | 3.3   | 7.3                   |
| ESE                     | .3    | 1.5   | 3.1    | 1.6     | .7      | .0      |         |         |         |         |     | 7.2   | 9.6                   |
| SE                      | .7    | 2.2   | 6.9    | 3.9     | 1.5     | .0      |         |         |         |         |     | 15.2  | 10.0                  |
| SSE                     | .2    | 2.0   | 7.6    | 8.2     | 2.5     | .3      |         |         |         |         |     | 20.9  | 11.6                  |
| S                       | .5    | 1.8   | 5.9    | 4.7     | 1.3     | .3      |         |         |         |         |     | 14.5  | 10.2                  |
| SSW                     | .2    | 1.6   | 2.7    | 1.7     | .9      | .4      |         |         |         |         |     | 7.5   | 10.9                  |
| SW                      | .5    | 1.0   | 1.0    | .9      | .7      | .1      | .1      |         |         |         |     | 4.3   | 10.5                  |
| WSW                     | .3    | .4    | .5     | .5      | .0      |         |         |         |         |         |     | 1.7   | 8.2                   |
| W                       | .1    | .6    | .6     | .3      | .0      |         |         |         |         |         |     | 1.4   | 7.7                   |
| WNW                     | .1    | .3    | .6     | .3      | .1      | .0      |         |         |         |         |     | 1.5   | 9.4                   |
| NW                      | .3    | .3    | .5     | .6      | .3      | .1      |         |         |         |         |     | 2.1   | 11.0                  |
| NNW                     | .0    | .7    | 1.6    | 1.5     | .7      | .4      | .1      |         |         |         |     | 4.9   | 12.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.0   |                       |
|                         | 4.2   | 16.5  | 37.5   | 29.0    | 9.7     | 1.9     | .2      |         |         |         |     | 100.0 | 10.3                  |

TOTAL NUMBER OF OBSERVATIONS 2124

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 42-68 MONTH SEP  
CLASS ALL WEATHER HOURS (L.S.T.) 1500-1700  
CONDITION

| SPEED<br>(KNTS)<br>DUL | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                      | .1    | .5    | 1.2    | 1.6     | .5      | .2      | .0      |         |         |         |     | 4.2   | 12.0                  |
| NNE                    |       | .7    | 1.3    | .9      | .4      | .0      |         |         |         |         |     | 3.4   | 10.6                  |
| N E                    | .1    | .8    | 1.7    | 1.6     | .2      | .1      |         |         |         |         |     | 4.4   | 10.2                  |
| ENE                    | .1    | .9    | 1.4    | 1.2     |         |         |         |         |         |         |     | 3.6   | 9.2                   |
| E                      | .2    | .9    | 1.1    | .6      | .1      |         |         |         |         |         |     | 3.1   | 8.4                   |
| ESE                    | .3    | .9    | 2.9    | 1.7     | .5      |         |         |         |         |         |     | 6.3   | 9.8                   |
| SE                     | .2    | 1.7   | 7.1    | 6.1     | 1.3     | .0      | .0      |         |         |         |     | 16.5  | 10.8                  |
| SSE                    | .2    | 1.9   | 6.8    | 5.9     | 2.4     | .2      |         |         |         |         |     | 20.4  | 11.7                  |
| S                      | .1    | 1.6   | 5.9    | 4.4     | 1.3     | .2      |         |         |         |         |     | 13.5  | 10.9                  |
| SSW                    | .1    | .9    | 2.5    | 2.7     | .7      | .0      |         |         |         |         |     | 6.9   | 10.8                  |
| SW                     | .1    | .8    | 1.4    | 1.4     | .6      | .0      |         |         |         |         |     | 4.3   | 10.8                  |
| WSW                    | .1    | .5    | .6     | .2      | .1      | .1      |         |         |         |         |     | 1.7   | 9.0                   |
| W                      | .1    | .2    | .4     | .5      | .2      | .0      |         | .0      |         |         |     | 1.5   | 11.8                  |
| WNW                    | .1    | .5    | .5     | .4      | .2      | .1      |         |         |         |         |     | 1.8   | 10.3                  |
| NW                     | .2    | .8    | .8     | .8      | .1      | .1      |         |         |         |         |     | 2.7   | 9.3                   |
| NNW                    | .0    | .5    | 1.3    | 1.5     | 1.3     | .3      | .1      |         |         |         |     | 5.1   | 13.6                  |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CAIM                   |       |       |        |         |         |         |         |         |         |         |     | .5    |                       |
|                        | 2.2   | 13.9  | 37.0   | 34.5    | 10.1    | 1.5     | .2      | .0      |         |         |     | 100.0 | 10.8                  |

TOTAL NUMBER OF OBSERVATIONS 2116

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FO 42-66 YEARS SEP MONTH 1800-2000 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDTION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                 | .9    | 2.6   | 3.8    | 1.5     | .4      | .4      | .0      |         |         |         |      | 9.7   | 8.9             |
| NNE               | .3    | 1.3   | 3.3    | 1.7     | .2      | .1      |         |         |         |         |      | 6.9   | 9.4             |
| NE                | .3    | 2.2   | 2.7    | .9      | .1      |         |         |         |         |         |      | 6.3   | 7.7             |
| ENE               | .6    | 1.6   | 2.9    | .4      |         |         |         |         |         |         |      | 5.4   | 6.9             |
| E                 | .4    | 1.9   | 2.7    | .7      | .0      |         |         |         |         |         |      | 5.7   | 7.4             |
| ESE               | .5    | 2.3   | 4.4    | 1.0     | .3      |         |         |         |         |         |      | 8.5   | 8.1             |
| SE                | .8    | 3.0   | 8.5    | 2.3     | .1      |         |         |         |         |         |      | 14.7  | 8.1             |
| SSE               | .4    | 2.6   | 5.1    | 1.3     |         |         |         |         |         |         |      | 9.4   | 7.7             |
| S                 | .6    | 2.1   | 2.6    | .5      | .1      |         |         |         |         |         |      | 6.0   | 7.1             |
| SSW               | .4    | 1.2   | 1.3    | .5      | .2      |         | .0      |         |         |         |      | 3.6   | 8.1             |
| SW                | .5    | 1.0   | .8     | .6      |         |         |         |         |         |         |      | 3.0   | 7.2             |
| WSW               | .2    | .7    | .2     | .2      | .0      |         |         |         |         |         |      | 1.4   | 6.7             |
| W                 | .1    | .5    | .4     | .2      |         |         |         |         |         |         |      | 1.2   | 7.6             |
| WNW               | .2    | .9    | .8     | .5      | .1      | .1      |         |         |         |         |      | 2.3   | 8.4             |
| NW                | .6    | 1.3   | 2.4    | .7      | .2      | .2      |         |         |         |         |      | 5.4   | 8.7             |
| NNW               | .6    | 2.0   | 3.5    | 1.8     | .8      | .4      | .0      | .1      |         |         |      | 9.2   | 10.4            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |      | 1.1   |                 |
|                   | 7.4   | 27.3  | 43.4   | 14.7    | 2.6     | 1.2     | .1      | .1      |         |         |      | 100.0 | 8.2             |

TOTAL NUMBER OF OBSERVATIONS 2114

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLDRAAG SPRINGS COLO-PETERSON FD 42-68 YEARS SEP MONTH 2100-2300 HOURS (LST.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | 1.0   | 5.0   | 8.6    | 2.5     | .7      | .3      | .0      |         |         |         |     | 18.2  | 8.5                   |
| NNE                     | .8    | 5.8   | 5.1    | .8      | .1      | .0      |         |         |         |         |     | 12.7  | 6.9                   |
| NE                      | .8    | 3.4   | 3.3    | .4      | .0      |         |         |         |         |         |     | 7.8   | 6.4                   |
| ENE                     | .6    | 2.9   | 1.9    | .3      |         |         |         |         |         |         |     | 5.9   | 6.0                   |
| E                       | .9    | 2.3   | 1.7    | .3      | .1      |         |         |         |         |         |     | 5.4   | 6.4                   |
| ESE                     | .4    | 2.6   | 1.8    | .4      |         |         |         |         |         |         |     | 5.2   | 6.6                   |
| SE                      | .6    | 2.4   | 3.1    | .8      | .1      |         |         |         |         |         |     | 7.3   | 7.2                   |
| SSE                     | .6    | 2.0   | 2.5    | .5      | .0      |         |         |         |         |         |     | 5.6   | 7.0                   |
| S                       | .5    | 2.3   | 1.5    | .3      | .0      |         |         |         |         |         |     | 4.6   | 6.4                   |
| SSW                     | .3    | .6    | .3     | .2      |         |         |         |         |         |         |     | 1.4   | 6.1                   |
| SW                      | .2    | .4    | .2     | .1      | .0      |         |         |         |         |         |     | 1.0   | 7.4                   |
| WSW                     | .1    | .4    | .0     | .0      |         |         |         |         |         |         |     | .6    | 5.8                   |
| W                       | .2    | .6    | .2     |         | .0      |         |         |         |         |         |     | 1.1   | 5.6                   |
| WNW                     | .0    | .7    | .7     | .2      |         | .1      |         |         |         |         |     | 1.7   | 8.4                   |
| NW                      | .6    | 2.2   | 2.9    | .8      | .2      | .3      |         |         |         |         |     | 6.7   | 7.9                   |
| NNW                     | .6    | 3.9   | 5.5    | 2.1     | .6      | .4      |         | .0      |         |         |     | 13.1  | 9.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.5   |                       |
|                         | 8.7   | 37.3  | 39.5   | 9.9     | 2.1     | .9      | .0      | .0      |         |         |     | 100.0 | 7.3                   |

TOTAL NUMBER OF OBSERVATIONS 2118

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 42-68 SEP  
NORTH  
ALL  
HOURS (L.S.T.)

ALL WEATHER  
CLASS  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .7    | 3.3   | 5.3    | 1.9     | .7      | .2      | .0      |         | .8      |         |     | 12.2  | 8.8                   |
| NNE                     | .5    | 3.5   | 4.4    | 1.1     | .2      | .1      |         |         |         |         |     | 9.8   | 7.6                   |
| NE                      | .5    | 2.6   | 2.4    | .9      | .1      | .0      |         |         |         |         |     | 6.2   | 6.8                   |
| ENE                     | .5    | 1.8   | 1.4    | .4      | .0      |         |         |         |         |         |     | 4.1   | 6.6                   |
| E                       | .6    | 1.7   | 1.4    | .4      | .1      |         |         |         |         |         |     | 4.2   | 6.6                   |
| ESE                     | .4    | 1.9   | 2.4    | .7      | .3      | .0      |         |         |         |         |     | 5.8   | 6.0                   |
| SE                      | .7    | 2.4   | 4.6    | 2.1     | .5      | .0      | .0      |         |         |         |     | 10.4  | 8.7                   |
| SSE                     | .7    | 2.2   | 4.5    | 3.2     | .8      | .1      |         |         |         |         |     | 11.5  | 9.7                   |
| S                       | .3    | 1.8   | 2.8    | 1.7     | .5      | .1      |         |         |         |         |     | 7.3   | 9.1                   |
| SSW                     | .4    | 1.1   | 1.3    | .6      | .3      | .1      | .0      |         |         |         |     | 3.9   | 9.0                   |
| SW                      | .4    | .7    | .6     | .5      | .2      | .0      | .0      |         |         |         |     | 2.5   | 8.5                   |
| WSW                     | .2    | .3    | .2     | .2      | .0      | .0      |         |         |         |         |     | 1.1   | 6.9                   |
| W                       | .3    | .5    | .3     | .2      | .1      | .0      |         | .0      |         |         |     | 1.3   | 7.1                   |
| WNW                     | .2    | .7    | .6     | .3      | .1      | .1      | .0      |         |         |         |     | 1.9   | 8.2                   |
| NW                      | .4    | 1.4   | 1.9    | .8      | .3      | .1      | .0      |         |         |         |     | 4.9   | 8.7                   |
| NNW                     | .4    | 2.3   | 4.4    | 2.3     | 1.0     | .5      | .1      | .0      |         |         |     | 11.0  | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.0   |                       |
|                         | 7.6   | 28.4  | 38.6   | 17.0    | 5.1     | 1.2     | .2      | .0      | .8      |         |     | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS 16974

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD 42-08 YEARS OCT NORTH  
CLASS ALL WEATHER  
CONDITION 0000-0200 HOURS (LST.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .9    | 4.2   | 11.0   | 3.6     | .7      | .2      | .0      |         |         |         |      | 20.6  | 8.7                   |
| NNE                     | .5    | 4.7   | 11.9   | 1.4     | .3      |         |         |         |         |         |      | 18.8  | 7.8                   |
| NE                      | .6    | 3.9   | 6.2    | .3      | .0      |         |         |         |         |         |      | 11.1  | 6.9                   |
| ENE                     | .4    | 2.7   | 1.4    | .0      |         |         |         |         |         |         |      | 4.0   | 6.2                   |
| E                       | .3    | 2.0   | 1.0    | .0      |         |         |         |         |         |         |      | 4.1   | 5.6                   |
| ESE                     | .3    | 1.2   | 1.5    | .3      |         |         |         |         |         |         |      | 3.3   | 7.0                   |
| SE                      | .4    | 1.8   | 1.8    | .6      |         |         |         |         |         |         |      | 4.6   | 7.3                   |
| SSE                     | .4    | 1.3   | 1.4    | .4      | .1      |         |         |         |         |         |      | 3.7   | 7.2                   |
| S                       | .2    | .6    | .6     | .2      | .3      | .0      |         |         |         |         |      | 2.1   | 9.4                   |
| SSW                     | .1    | .3    | .4     | .2      | .1      |         |         |         |         |         |      | 1.3   | 8.4                   |
| SW                      | .1    | .4    | .3     | .0      | .0      |         |         |         |         |         |      | 1.0   | 6.6                   |
| WSW                     | .2    | .3    | .2     | .0      |         |         |         |         |         |         |      | .8    | 5.6                   |
| W                       | .2    | .4    | .2     | .2      | .1      |         |         | .0      | .0      |         |      | 1.2   | 10.8                  |
| WNW                     | .2    | 1.1   | .5     | .2      | .2      | .2      |         |         | .0      |         |      | 2.4   | 9.8                   |
| NW                      | .1    | 1.9   | 2.5    | 1.3     | .6      | .1      |         | .0      |         |         |      | 6.6   | 9.6                   |
| NNW                     | .4    | 2.1   | 6.2    | 3.5     | .8      | .4      | .0      |         |         |         |      | 12.9  | 10.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.6   |                       |
|                         | 5.3   | 29.3  | 47.2   | 12.1    | 3.4     | 1.0     | .1      | .1      | .1      |         |      | 100.0 | 8.0                   |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 94037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 42-68 MONTH OCT  
CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .5    | 4.9   | 12.5   | 3.5     | .8      | .4      |         |         |         |         |     | 22.6  | 8.8                   |
| NNE                     | .6    | 4.5   | 12.0   | 1.2     | .1      | .1      |         |         |         |         |     | 18.6  | 7.8                   |
| NE                      | .5    | 4.5   | 5.3    | .3      |         |         |         |         |         |         |     | 10.7  | 6.7                   |
| ENE                     | .3    | 1.6   | 1.3    |         | .0      |         |         |         |         |         |     | 3.2   | 6.1                   |
| E                       | .5    | 1.5   | 1.2    | .1      | .1      |         |         |         |         |         |     | 3.3   | 6.4                   |
| ESE                     | .4    | 1.2   | 1.1    | .1      | .0      | .0      |         |         |         |         |     | 2.9   | 6.7                   |
| SE                      | .3    | 1.4   | 1.5    | .3      | .0      |         |         |         |         |         |     | 3.5   | 6.9                   |
| SSE                     | .1    | .9    | 1.6    | .5      | .0      |         |         |         |         |         |     | 3.2   | 8.3                   |
| S                       | .2    | .6    | 1.0    | .1      | .1      | .0      |         |         |         |         |     | 2.2   | 7.9                   |
| SSW                     | .2    | .2    | .2     | .1      | .0      | .0      |         |         |         |         |     | .9    | 8.2                   |
| SW                      | .1    | .4    | .2     | .2      |         |         |         |         |         |         |     | .9    | 7.2                   |
| WSW                     | .0    | .4    | .2     | .1      | .1      |         |         |         |         |         |     | .8    | 8.0                   |
| W                       | .1    | .5    | .2     | .1      | .0      |         |         |         |         |         |     | .7    | 7.4                   |
| WNW                     | .3    | .8    | .7     | .1      | .1      | .1      | .0      | .0      | .0      |         |     | 2.2   | 10.2                  |
| NW                      | .4    | 2.1   | 3.2    | 1.3     | .4      | .0      |         |         |         |         |     | 7.4   | 8.7                   |
| NNW                     | .3    | 2.0   | 6.9    | 3.5     | 1.3     | .5      | .0      |         |         |         |     | 14.5  | 10.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.2   |                       |
|                         | 5.0   | 27.4  | 48.9   | 11.7    | 3.3     | 1.3     | .1      | .0      | .0      |         |     | 100.0 | 8.1                   |

TOTAL NUMBER OF OBSERVATIONS 2163

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-68 YEARS OCT MONTH 0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                    | 1.1   | 4.1   | 8.2    | 2.5     | .6      | .1      |         |         |         |         |      | 16.6  | 8.3             |
| NNE                  | .8    | 4.4   | 6.3    | 1.1     | .2      |         |         |         |         |         |      | 12.9  | 7.3             |
| NE                   | .8    | 3.4   | 3.0    | .1      |         | .0      |         |         |         |         |      | 7.4   | 6.1             |
| ENE                  | .9    | 1.8   | .7     | .3      | .0      |         |         |         |         |         |      | 3.7   | 5.9             |
| E                    | .5    | 2.0   | .7     | .2      |         |         |         |         |         |         |      | 3.5   | 5.7             |
| ESE                  | 1.0   | 2.0   | 1.1    | .3      | .1      | .0      |         |         |         |         |      | 4.5   | 6.1             |
| SE                   | 1.1   | 2.4   | 2.0    | .5      | .1      |         |         |         |         |         |      | 5.0   | 6.6             |
| SSE                  | .9    | 1.5   | 1.3    | .6      | .0      |         |         |         |         |         |      | 4.4   | 6.7             |
| S                    | .8    | 1.4   | 1.1    | .5      | .1      |         |         |         |         |         |      | 9.9   | 7.0             |
| SSW                  | .5    | .9    | .9     | .1      | .0      |         |         |         |         |         |      | 2.4   | 6.4             |
| SW                   | .1    | .6    | .3     | .1      | .1      |         |         |         |         |         |      | 1.2   | 7.1             |
| WSW                  | .5    | .6    | .0     | .2      | .1      | .0      |         |         |         |         |      | 1.6   | 6.7             |
| W                    | .5    | .9    | .4     | .2      | .0      | .0      |         |         |         |         |      | 2.1   | 6.5             |
| WNW                  | .5    | 1.6   | .9     | .6      | .1      |         |         |         |         |         |      | 3.6   | 7.3             |
| NW                   | .7    | 2.8   | 2.7    | .9      | .2      | .2      |         |         |         |         |      | 7.6   | 7.8             |
| NNW                  | .6    | 3.9   | 3.7    | 3.7     | 1.1     | .5      | .1      |         |         |         |      | 15.5  | 9.7             |
| VA?BL                |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |      | 3.0   |                 |
|                      | 11.2  | 34.4  | 35.4   | 12.1    | 2.9     | 1.0     | .1      |         |         |         |      | 100.0 | 7.3             |

TOTAL NUMBER OF OBSERVATIONS 2189

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLD-PETERSON FD 42-68 YEARS OCT NORTH  
CLASS ALL WEATHER HOURS 0900-1100  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .7    | 1.2   | 1.8    | 2.1     | .3      | .2      | .0      |         |         |         |     | 6.3   | 10.0                  |
| NNE                     | .3    | 1.0   | 1.9    | 1.1     | .4      |         |         |         |         |         |     | 4.8   | 9.1                   |
| NE                      | .5    | .9    | .8     | .4      | .1      | .0      |         |         |         |         |     | 2.7   | 7.8                   |
| ENE                     | .3    | 1.1   | 1.0    | .3      |         | .0      |         |         |         |         |     | 3.0   | 6.9                   |
| E                       | .7    | 1.0   | .9     | .4      | .1      |         |         |         |         |         |     | 3.0   | 6.8                   |
| ESE                     | .9    | 3.1   | 2.1    | .3      | .4      | .0      |         |         |         |         |     | 6.8   | 7.0                   |
| SE                      | 1.5   | 4.4   | 6.1    | 1.9     | .4      |         |         |         |         |         |     | 14.2  | 7.6                   |
| SSE                     | 1.6   | 4.3   | 7.6    | 3.3     | .7      | .1      |         |         |         |         |     | 17.5  | 8.4                   |
| S                       | 1.3   | 2.9   | 4.1    | 2.1     | .5      | .1      | .1      | .0      |         |         |     | 11.3  | 8.4                   |
| SSW                     | .8    | 2.6   | 1.8    | .4      | .7      | .1      |         |         |         |         |     | 6.7   | 5.7                   |
| SW                      | .6    | 1.0   | .7     | .4      | .4      | .2      |         |         |         |         |     | 3.3   | 9.1                   |
| WSW                     | .4    | .5    | .1     | .3      | .3      | .1      |         |         |         |         |     | 1.6   | 9.7                   |
| W                       | .3    | .6    | .5     | .3      | .1      | .0      |         |         |         |         |     | 2.1   | 7.5                   |
| WNW                     | .5    | 1.0   | .3     | .3      | .1      | .2      |         |         |         |         |     | 2.4   | 8.3                   |
| NW                      | .3    | 1.1   | 1.0    | 1.0     | .0      | .2      |         |         |         |         |     | 3.8   | 9.2                   |
| NNW                     | .5    | .9    | 1.6    | 1.9     | 1.4     | .5      | .1      |         |         |         |     | 7.0   | 12.6                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 3.4   |                       |
|                         | 11.8  | 27.6  | 32.2   | 18.8    | 5.9     | 1.9     | .3      | .0      |         |         |     | 102.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 2193

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-66 YEARS OCT NORTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .2    | .6    | .9     | 1.5     | .7      | .2      | .1      |         |         |         |     | 4.5   | 12.1            |
| NNE                  | .2    | .4    | .8     | 1.3     | .2      | .0      |         |         |         |         |     | 3.2   | 10.7            |
| NE                   | .4    | .8    | 1.0    | .9      | .1      | .1      |         |         |         |         |     | 3.3   | 9.1             |
| ENE                  | .4    | .6    | .9     | .6      | .1      |         |         |         |         |         |     | 2.6   | 8.2             |
| E                    | .5    | 1.0   | 1.4    | .5      |         |         |         |         |         |         |     | 3.3   | 7.2             |
| ESE                  | .3    | 2.0   | 2.7    | 1.3     | .4      | .1      |         |         | .0      |         |     | 6.9   | 9.3             |
| SE                   | .7    | 2.8   | 7.6    | 4.2     | .9      | .1      |         |         |         |         |     | 16.4  | 9.5             |
| SSE                  | .4    | 3.2   | 8.1    | 0.1     | 2.2     | .2      |         |         |         |         |     | 22.2  | 10.7            |
| S                    | .5    | 3.0   | 5.2    | 3.3     | 1.4     | .2      | .0      |         |         |         |     | 13.7  | 9.9             |
| SSW                  | .2    | 1.5   | 2.3    | 1.3     | 1.3     | .4      | .0      |         |         |         |     | 7.1   | 11.2            |
| SW                   | .4    | .7    | 1.0    | .9      | .6      | .1      |         |         |         |         |     | 3.4   | 10.2            |
| WSW                  | .1    | .3    | .5     | .2      | .2      | .1      |         | .0      |         |         |     | 1.6   | 10.9            |
| W                    | .1    | .1    | .7     | .4      | .2      | .0      |         |         |         |         |     | 1.7   | 10.9            |
| WNW                  | .2    | .5    | .4     | .3      | .4      | .1      |         | .0      |         |         |     | 2.2   | 11.8            |
| NW                   | .0    | .4    | .7     | .7      | .2      | .1      | .1      |         |         |         |     | 2.2   | 11.9            |
| NNW                  | .2    | .4    | 1.2    | 1.3     | .9      | .3      | .1      |         |         |         |     | 4.4   | 13.1            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 1.3   |                 |
|                      | 4.9   | 18.8  | 35.5   | 26.8    | 10.0    | 2.2     | .4      | .1      | .0      |         |     | 100.0 | 10.2            |

TOTAL NUMBER OF OBSERVATIONS 2183

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLB-PETERSON FO 42-68 YEARS JET  
STATION NAME CLASS NORTH  
1500-1700  
HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---|-------|-----------------------|
| N                       |       | .2    | 1.5    | 1.6     | 1.0     | .3      |         |         |         |         |   | 4.6   | 13.0                  |
| NNE                     |       | .5    | 1.4    | 1.4     | .6      | .1      |         |         |         |         |   | 4.0   | 11.6                  |
| NE                      | .0    | .9    | 1.7    | .9      | .2      | .1      |         |         |         |         |   | 3.8   | 9.8                   |
| ENE                     |       | .7    | 1.5    | .5      | .1      | .0      |         |         |         |         |   | 3.0   | 9.1                   |
| E                       | .3    | 1.2   | 1.5    | .5      | .1      |         |         |         |         |         |   | 3.6   | 7.7                   |
| ESE                     | .2    | 1.8   | 3.3    | 1.5     | .5      | .1      |         |         |         |         |   | 7.4   | 9.1                   |
| SE                      | .2    | 2.6   | 9.2    | 4.3     | .7      | .2      |         |         |         |         |   | 17.2  | 9.7                   |
| SSE                     | .3    | 2.8   | 9.7    | 6.6     | 1.9     | .1      |         |         |         |         |   | 21.3  | 10.5                  |
| S                       | .3    | 2.2   | 4.7    | 3.2     | .8      | .1      |         |         |         |         |   | 11.3  | 9.7                   |
| SSW                     | .2    | 1.3   | 2.2    | 1.5     | .8      | .3      | .0      |         |         |         |   | 8.4   | 11.0                  |
| SW                      | .3    | 1.2   | .6     | 1.1     | .4      | .2      |         |         |         |         |   | 3.8   | 10.1                  |
| WSW                     | .0    | .5    | .9     | .3      | .2      | .0      |         |         |         |         |   | 2.1   | 9.8                   |
| W                       |       | .2    | .3     | .5      | .2      | .1      |         |         |         |         |   | 1.2   | 12.9                  |
| WNW                     | .1    | .3    | .5     | .9      | .4      | .1      | .0      |         |         |         |   | 2.3   | 12.7                  |
| NW                      | .1    | .3    | .8     | .8      | .7      | .1      |         |         |         |         |   | 2.8   | 12.2                  |
| NNW                     | .1    | .5    | 1.5    | 1.6     | 1.0     | .2      |         |         |         |         |   | 4.8   | 12.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |   |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |   | .4    |                       |
|                         | 2.2   | 17.2  | 41.3   | 27.2    | 9.4     | 2.1     | .1      |         |         |         |   | 100.0 | 10.3                  |

TOTAL NUMBER OF OBSERVATIONS 2191

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLDPRADO SPRINGS COLD-PETERSON FG 42-68 YEARS UCT  
STATION NAME CLASS MONTH  
ALL WEATHER 1800-2000  
CONDITION HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .7    | 3.3   | 4.8    | 2.0     | .4      | .2      |         |         |         |         |      | 11.5  | 8.7                   |
| NNE                     | .5    | 3.3   | 4.4    | 1.3     | .5      | .1      | .6      |         |         |         |      | 10.2  | 8.4                   |
| NE                      | .5    | 2.7   | 3.6    | .7      | .1      | .0      |         |         |         |         |      | 7.7   | 7.5                   |
| ENE                     | .6    | 2.1   | 2.0    | .1      |         |         |         |         |         |         |      | 5.1   | 6.7                   |
| E                       | .6    | 3.2   | 2.3    | .3      |         |         |         |         |         |         |      | 6.3   | 6.3                   |
| ESE                     | .3    | 2.6   | 3.6    | .5      | .1      | .1      |         |         |         |         |      | 7.2   | 7.3                   |
| SE                      | .5    | 3.2   | 6.3    | .9      | .0      |         |         |         |         |         |      | 10.8  | 7.5                   |
| SSE                     | .5    | 2.8   | 3.8    | 1.1     | .1      |         |         |         |         |         |      | 8.4   | 7.5                   |
| S                       | .6    | 1.6   | 2.4    | .5      | .1      |         |         |         |         |         |      | 5.2   | 7.2                   |
| SSW                     | .3    | .5    | .7     | .4      | .1      |         |         |         |         |         |      | 2.1   | 8.0                   |
| SW                      | .5    | .6    | .9     | .3      | .2      | .0      |         |         |         |         |      | 2.8   | 8.3                   |
| WSW                     | .2    | .6    | .3     | .2      | .0      |         |         |         |         |         |      | 1.3   | 7.2                   |
| W                       | .3    | .5    | .2     | .1      | .0      |         |         |         |         |         |      | 1.1   | 6.6                   |
| WNW                     | .4    | 1.1   | 1.1    | .1      | .1      | .1      |         |         |         |         |      | 2.8   | 7.3                   |
| NW                      | .2    | 2.0   | 2.4    | .7      | .2      | .0      | .0      | .0      |         |         |      | 5.6   | 8.6                   |
| NNW                     | .5    | 2.3   | 4.0    | 2.1     | 1.0     | .1      |         |         |         |         |      | 10.0  | 9.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.9   |                       |
|                         | 7.3   | 32.4  | 42.7   | 11.8    | 3.1     | .2      | .1      | .0      |         |         |      | 100.0 | 7.7                   |

TOTAL NUMBER OF OBSERVATIONS 2187

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

|             |                                    |       |                |
|-------------|------------------------------------|-------|----------------|
| 93037       | COLORADO SPRINGS COLO-PETERS.JN FO | 42-68 | CT             |
| STATION     | STATION NAME                       | YEARS | MOUTH          |
| ALL WEATHER |                                    |       | 2100-2300      |
| CLASS       |                                    |       | HOURS (L.S.T.) |
| CONDITION   |                                    |       |                |

| SPEED<br>(KNTS) | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-----------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| DIR.            |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| N               | .5    | 4.9   | 9.1    | 2.8     | .7      | .2      |         |         |         |         |     | 15.2  | 8.5                   |
| NNE             | .5    | 5.8   | 10.6   | 1.1     | .5      |         |         |         |         |         |     | 18.4  | 7.5                   |
| NE              | .7    | 5.4   | 4.6    | .2      | .0      | .0      |         |         |         |         |     | 11.0  | 6.4                   |
| ENE             | .5    | 2.3   | 1.2    | .0      |         |         |         |         |         |         |     | 4.2   | 5.6                   |
| E               | .4    | 2.2   | 1.7    | .1      |         |         |         |         |         |         |     | 4.4   | 6.1                   |
| ESE             | .5    | 1.3   | 1.6    | .2      |         | .0      |         |         |         |         |     | 3.5   | 6.8                   |
| SE              | .6    | 3.0   | 2.2    | .6      | .0      |         |         |         |         |         |     | 6.5   | 6.7                   |
| SSE             | .6    | 1.2   | 1.8    | .8      | .2      |         |         |         |         |         |     | 4.5   | 8.1                   |
| S               | .3    | 1.1   | .8     | .5      | .1      | .1      |         |         |         |         |     | 2.8   | 7.9                   |
| SSW             | .2    | .1    | .6     | .2      | .1      | .0      |         |         |         |         |     | 1.4   | 9.3                   |
| SW              | .2    | .5    | .2     | .3      | .1      |         |         |         |         |         |     | 1.3   | 7.9                   |
| WSW             | .2    | .2    | .3     | .0      | .0      |         |         |         |         |         |     | .8    | 6.7                   |
| W               | .1    | .7    | .1     | .2      | .1      | .0      | .0      |         |         |         |     | 1.3   | 8.6                   |
| WNW             | .1    | .7    | .8     | .3      | .0      | .1      | .0      |         | .0      |         |     | 2.2   | 9.7                   |
| NW              | .4    | 1.2   | 2.9    | .8      | .3      | .0      |         |         |         |         |     | 5.6   | 8.6                   |
| NNW             | .2    | 2.5   | 5.4    | 2.7     | .7      | .2      | .1      |         |         |         |     | 11.8  | 9.7                   |
| VARBL           |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM            |       |       |        |         |         |         |         |         |         |         |     | 1.9   |                       |
|                 | 5.8   | 33.2  | 44.1   | 10.9    | 3.0     | .8      | .2      |         | .0      |         |     | 100.0 | 7.7                   |

TOTAL NUMBER OF OBSERVATIONS 2184

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037

COLORADO SPRINGS COLQ-PETERSON FD

42-68

OCT

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

ALL

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 2.9   | 6.2    | 2.4     | .7      | .2      | .0      |         |         |         |     | 13.1  | 9.0                   |
| NNE                     | .5    | 3.1   | 6.2    | 1.3     | .4      | .0      | .0      |         |         |         |     | 11.4  | 8.1                   |
| NE                      | .5    | 2.8   | 3.3    | .5      | .1      | .1      |         |         |         |         |     | 7.2   | 7.1                   |
| ENE                     | .5    | 1.5   | 1.3    | .3      | .0      | .0      |         |         |         |         |     | 3.6   | 6.7                   |
| E                       | .5    | 1.9   | 1.3    | .3      | .0      |         |         |         |         |         |     | 4.0   | 6.4                   |
| ESE                     | .5    | 1.9   | 2.1    | .6      | .2      | .1      |         |         | .0      |         |     | 5.3   | 7.7                   |
| SE                      | .7    | 2.7   | 4.6    | 1.7     | .3      | .0      |         |         |         |         |     | 9.9   | 8.2                   |
| SSE                     | .6    | 2.3   | 4.4    | 2.7     | .7      | .0      |         |         |         |         |     | 10.7  | 9.3                   |
| S                       | .5    | 1.7   | 2.5    | 1.3     | .4      | .1      | .0      | .0      |         |         |     | 6.5   | 8.9                   |
| SSW                     | .3    | 1.0   | 1.2    | .6      | .4      | .1      | .0      |         |         |         |     | 3.5   | 9.6                   |
| SW                      | .3    | .7    | .5     | .4      | .2      | .1      |         |         |         |         |     | 2.2   | 8.9                   |
| WSW                     | .2    | .5    | .3     | .2      | .1      | .0      |         | .0      |         |         |     | 1.3   | 8.5                   |
| W                       | .2    | .5    | .3     | .3      | .1      | .0      | .0      | .0      | .0      |         |     | 1.5   | 8.7                   |
| WNW                     | .3    | .9    | .6     | .4      | .2      | .1      | .0      | .0      | .0      |         |     | 2.5   | 9.4                   |
| NW                      | .3    | 1.9   | 2.0    | .9      | .3      | .1      | .0      | .0      |         |         |     | 5.2   | 9.1                   |
| NNW                     | .4    | 1.5   | 4.0    | 2.5     | 1.0     | .3      | .1      |         |         |         |     | 10.1  | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.9   |                       |
|                         | 6.7   | 27.3  | 40.9   | 16.2    | 5.1     | 1.4     | .2      | .0      | .0      |         |     | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS

17494

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FO 42-66 YEARS NOV  
STATION NAME CLASS ALL WEATHER NORTH  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 5.3   | 9.0    | 2.7     | .8      | .1      |         |         |         |         |     | 18.6  | 8.4                   |
| NNE                     | .2    | 5.3   | 10.2   | 1.8     | .4      | .8      |         |         |         |         |     | 18.0  | 8.0                   |
| NE                      | .6    | 4.6   | 4.1    | .6      | .0      | .0      |         |         |         |         |     | 9.9   | 6.7                   |
| ENE                     | .3    | 2.3   | 1.9    | .2      | .2      |         |         |         |         |         |     | 5.3   | 6.6                   |
| E                       | .6    | 2.1   | 1.2    | .1      | .1      | .0      |         |         |         |         |     | 4.1   | 6.2                   |
| ESE                     | .1    | 1.3   | 1.2    | .1      | .1      |         |         |         |         |         |     | 2.8   | 7.1                   |
| SE                      | .4    | 1.4   | 1.4    | .4      | .0      |         |         |         |         |         |     | 3.7   | 6.9                   |
| SSE                     | .2    | 1.3   | 1.1    | .6      | .1      |         |         |         |         |         |     | 3.3   | 7.8                   |
| S                       | .3    | .7    | .8     | .2      | .0      |         |         |         |         |         |     | 2.0   | 7.0                   |
| SSW                     | .2    | .8    | .5     | .2      | .0      |         |         |         |         |         |     | 1.6   | 7.6                   |
| SW                      | .1    | .5    | .3     | .1      | .1      | .1      |         |         |         |         |     | 1.3   | 8.9                   |
| WSW                     | .2    | .3    | .2     | .1      |         | .5      |         |         |         |         |     | .8    | 7.6                   |
| W                       | .1    | .7    | .2     | .1      | .2      | .2      | .0      |         |         |         |     | 1.6   | 10.4                  |
| WNW                     | .2    | .8    | .8     | .4      | .5      | .1      | .2      |         |         |         |     | 3.0   | 11.3                  |
| NW                      | .3    | 1.4   | 2.3    | 1.4     | .7      | .4      | .2      |         |         |         |     | 6.9   | 10.2                  |
| NNW                     | .4    | 2.5   | 7.1    | 3.1     | 1.5     | .6      | .1      | .2      |         |         |     | 15.4  | 10.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.5   |                       |
|                         | 5.4   | 31.1  | 42.4   | 12.3    | 4.9     | 1.7     | .6      | .2      |         |         |     | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS: 2122

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS GOLD-PETERSON FD YEARS 42-68 MONTH NOV  
CLASS ALL WEATHER HOURS (L.S.T.) 0300-0500  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                    | .5    | 5.2   | 10.0   | 2.9     | .7      | .3      |         |         |         |         |      | 19.6  | 5.7             |
| NNE                  | .5    | 5.3   | 9.2    | 1.4     | .2      | .0      |         |         |         |         |      | 16.6  | 7.6             |
| NE                   | .8    | 4.3   | 4.6    | .3      |         |         |         |         |         |         |      | 10.0  | 6.6             |
| ENE                  | .5    | 2.2   | 1.6    | .2      | .0      |         |         |         |         |         |      | 4.6   | 6.3             |
| E                    | .4    | 1.5   | 1.3    | .5      | .0      |         |         |         |         |         |      | 3.7   | 6.8             |
| ESE                  | .3    | .8    | 1.0    | .0      | .0      |         |         |         |         |         |      | 2.2   | 6.5             |
| SE                   | .2    | 1.3   | 1.1    | .4      | .1      |         |         |         |         |         |      | 3.0   | 7.4             |
| SSE                  | .1    | .7    | 1.1    | .5      | .1      |         |         |         |         |         |      | 2.5   | 8.6             |
| S                    | .4    | .8    | .5     | .3      | .1      |         |         |         |         |         |      | 2.1   | 7.1             |
| SSW                  | .1    | .3    | .6     | .6      | .0      | .0      | .0      |         |         |         |      | 1.8   | 9.9             |
| SW                   | .1    | .6    | .1     | .0      |         | .0      | .0      |         |         |         |      | 1.0   | 7.0             |
| WSW                  | .0    | .4    | .3     | .1      | .0      |         |         |         |         |         |      | .8    | 7.2             |
| W                    | .1    | .7    | .1     |         |         | .1      | .0      |         |         |         |      | 1.1   | 8.0             |
| WNW                  | .3    | 1.2   | 1.0    | .4      | .5      | .5      | .1      | .0      | .0      |         |      | 4.1   | 11.6            |
| NW                   | .5    | 2.5   | 2.9    | 1.8     | .7      | .2      | .0      | .1      |         |         |      | 8.7   | 10.0            |
| NNW                  | .5    | 3.1   | 6.1    | 4.2     | 1.4     | .8      | .1      | .1      |         |         |      | 16.3  | 10.9            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |      | 1.0   |                 |
|                      | 5.2   | 30.9  | 41.6   | 13.6    | 4.1     | 2.1     | .4      | .3      | .0      |         |      | 100.0 | 8.4             |

TOTAL NUMBER OF OBSERVATIONS 2119

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLD-PETERSON FD 42-98 YEARS ADV MONTH 0600-0800 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|--------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| DIR.         |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| N            | 1.3   | 5.9   | 8.5    | 2.9     | .9      | .3      | .0      | .0      |         |         |     | 19.7  | 8.5             |
| NNE          | .9    | 4.3   | 6.6    | 1.4     | .3      | .2      |         |         |         |         |     | 13.6  | 7.7             |
| NE           | .7    | 4.4   | 4.0    | .4      | .2      |         |         |         |         |         |     | 9.7   | 6.6             |
| ENE          | .4    | 2.0   | .8     | .4      |         |         |         |         |         |         |     | 3.6   | 6.3             |
| E            | .3    | 1.5   | .9     | .3      | .0      |         |         |         |         |         |     | 3.3   | 6.6             |
| ESE          | .3    | .9    | .8     | .2      | .1      |         |         |         |         |         |     | 2.5   | 7.1             |
| SE           | .2    | 1.4   | 1.1    | .5      | .1      |         |         |         |         |         |     | 3.4   | 7.6             |
| SSE          | .3    | .8    | 1.4    | .5      | .1      |         |         |         |         |         |     | 3.1   | 8.0             |
| S            | .3    | 1.0   | .6     | .2      | .1      |         |         |         |         |         |     | 2.5   | 7.6             |
| SSW          | .4    | .8    | .3     | .2      | .1      | .1      |         |         |         |         |     | 2.2   | 8.4             |
| SW           | .4    | .9    | .2     | .1      | .2      | .0      | .0      |         |         |         |     | 2.0   | 7.9             |
| WSW          | .4    | .6    | .1     | .0      | .1      |         |         |         |         |         |     | 1.2   | 6.0             |
| W            | .4    | .6    | .5     | .0      | .1      | .2      | .1      |         |         |         |     | 1.9   | 9.0             |
| WNW          | .2    | 1.0   | 1.0    | .3      | .5      | .1      | .0      |         |         |         |     | 3.2   | 9.6             |
| NW           | .9    | 2.1   | 3.3    | 1.6     | .7      | .3      | .0      | .1      |         |         |     | 9.2   | 9.7             |
| NNW          | .6    | 3.4   | 6.3    | 3.1     | 1.6     | 1.0     | .1      | .1      |         |         |     | 16.2  | 10.8            |
| VARBL        |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM         |       |       |        |         |         |         |         |         |         |         |     | 2.8   |                 |
|              | 8.0   | 31.3  | 36.7   | 12.6    | 5.1     | 2.3     | .4      | .3      |         |         |     | 100.0 | 8.2             |

TOTAL NUMBER OF OBSERVATIONS 2122

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLG-PETERSON FD 42-68 YEARS NOV  
MONTH  
0900-1100  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 1.6   | 1.5    | 2.6     | 1.6     | .8      | .3      |         |         |         |     | 3.4   | 12.7                  |
| NNE                     | .7    | 1.5   | 1.3    | .9      | .4      | .3      | .1      |         |         |         |     | 3.3   | 9.8                   |
| NE                      | .8    | 1.3   | .6     | .5      | .1      | .0      |         |         |         |         |     | 3.3   | 6.7                   |
| ENE                     | .4    | 1.5   | .6     | .1      | .0      |         |         |         |         |         |     | 2.6   | 6.3                   |
| E                       | 1.0   | 2.0   | .9     | .1      | .1      |         |         |         |         |         |     | 4.1   | 5.8                   |
| ESE                     | 1.3   | 2.5   | 1.7    | .5      | .0      | .0      | .0      |         |         |         |     | 6.1   | 6.5                   |
| SE                      | 2.2   | 4.6   | 4.4    | 1.6     | .3      |         |         |         |         |         |     | 13.2  | 6.9                   |
| SSE                     | 1.0   | 3.1   | 4.4    | 2.0     | .4      | .1      |         |         |         |         |     | 11.0  | 8.2                   |
| S                       | 1.1   | 2.4   | 3.6    | .9      | .4      | .2      | .1      |         |         |         |     | 8.8   | 8.2                   |
| SSW                     | .6    | 1.8   | 1.8    | .8      | .3      | .1      | .0      | .0      |         |         |     | 5.5   | 8.8                   |
| SW                      | .5    | 1.2   | .9     | .3      | .2      | .1      |         |         |         |         |     | 3.3   | 8.0                   |
| WSW                     | .5    | 1.1   | .3     | .1      | .2      | .1      |         | .0      |         |         |     | 2.3   | 7.9                   |
| W                       | .4    | .8    | .2     | .3      | .2      | .2      | .0      | .0      |         |         |     | 2.3   | 10.4                  |
| WNW                     | .3    | .8    | .6     | .9      | .6      | .1      | .2      |         |         |         |     | 3.6   | 12.1                  |
| NW                      | .7    | .9    | 1.2    | 1.3     | .8      | .6      | .3      | .1      |         |         |     | 5.9   | 13.0                  |
| NNW                     | .4    | .8    | 1.9    | 2.2     | 1.4     | 1.3     | .4      | .1      |         |         |     | 8.5   | 14.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 5.7   |                       |
|                         | 12.5  | 27.9  | 25.9   | 14.7    | 7.2     | 4.1     | 1.6     | .4      |         |         |     | 100.0 | 6.2                   |

TOTAL NUMBER OF OBSERVATIONS 2127

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

99037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-58 YEARS NDV NORTH  
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)  
CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .1    | .5    | 1.7    | 1.2     | 1.2     | .7      | .2      |         |         |         |     | 5.6   | 13.9            |
| NNE                  | .3    | .5    | 1.0    | 1.4     | .9      | .2      | .1      | .0      |         |         |     | 4.4   | 12.9            |
| NE                   | .3    | .9    | .9     | .5      | .1      |         |         |         |         |         |     | 2.8   | 8.1             |
| ENE                  | .2    | 1.2   | .7     | .2      | .0      |         |         |         |         |         |     | 2.4   | 7.0             |
| E                    | .5    | 1.7   | 1.2    | .4      |         |         |         |         |         |         |     | 3.7   | 6.6             |
| ESE                  | .6    | 2.3   | 2.8    | .4      | .1      | .1      | .1      |         |         |         |     | 6.7   | 7.7             |
| SE                   | .9    | 3.9   | 6.2    | 2.1     | .5      |         |         |         |         |         |     | 13.6  | 8.3             |
| SSE                  | 1.2   | 4.1   | 7.8    | 3.8     | .9      | .1      |         |         |         |         |     | 17.9  | 9.0             |
| S                    | .8    | 3.3   | 4.9    | 2.7     | .6      | .2      | .0      |         |         |         |     | 12.8  | 8.9             |
| SSW                  | .4    | 1.1   | 2.1    | .9      | .4      | .5      |         | .1      |         |         |     | 5.5   | 10.9            |
| SW                   | .4    | .6    | 1.1    | .6      | .1      | .3      |         |         |         |         |     | 3.1   | 9.9             |
| WSW                  | .1    | .6    | .2     | .4      | .2      | .1      |         |         |         |         |     | 1.6   | 10.0            |
| W                    | .2    | .3    | .3     | .4      | .5      | .3      | .1      |         |         |         |     | 2.3   | 12.7            |
| WNW                  | .2    | .3    | .2     | .9      | .8      | .8      | .3      |         |         |         |     | 3.3   | 13.9            |
| NW                   | .2    | .6    | .6     | 1.3     | .9      | .7      | .1      |         |         | .0      |     | 4.3   | 14.7            |
| NNW                  | .2    | .4    | 1.4    | 1.5     | 1.4     | 1.2     | .7      |         |         |         |     | 6.9   | 18.1            |
| VAEBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 2.5   |                 |
|                      | 6.9   | 22.8  | 33.2   | 18.7    | 8.7     | 3.2     | 1.7     | .1      |         | .0      |     | 100.0 | 10.1            |

TOTAL NUMBER OF OBSERVATIONS 2119

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-66 YEARS NOV MONTH 1500-1700 HOURS (LST.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .4    | .5    | 2.5    | 2.0     | 1.0     | .6      |         |         |         |         |     | 7.1   | 12.1            |
| NNE               | .3    | 1.2   | 1.9    | 1.2     | .5      | .2      | .0      |         |         |         |     | 5.4   | 10.4            |
| NE                | .1    | 1.7   | 2.2    | .8      | .3      |         |         |         |         |         |     | 5.1   | 8.5             |
| ENE               | .4    | 1.0   | 1.2    | .5      | .1      | .0      |         |         |         |         |     | 3.3   | 7.6             |
| E                 | .6    | 1.7   | 1.4    | .3      | .0      |         |         |         |         |         |     | 4.0   | 6.4             |
| ESE               | .6    | 2.6   | 3.0    | .4      | .1      |         |         |         |         |         |     | 6.7   | 7.0             |
| SE                | 1.0   | 4.4   | 7.0    | 1.8     | .2      |         |         |         |         |         |     | 14.4  | 7.7             |
| SSE               | .7    | 4.1   | 7.3    | 2.7     | .6      |         |         |         |         |         |     | 15.4  | 8.5             |
| S                 | .8    | 3.0   | 4.3    | 1.4     | .3      | .1      |         |         |         |         |     | 9.5   | 8.1             |
| SSW               | .3    | 1.2   | 1.0    | 1.1     | .7      | .3      |         |         |         |         |     | 4.5   | 10.5            |
| SW                | .2    | .5    | .7     | .3      | .3      | .0      |         |         |         |         |     | 2.1   | 9.2             |
| WSW               | .3    | .6    | .4     | .3      | .2      |         | .0      |         |         |         |     | 1.8   | 9.0             |
| W                 | .0    | .3    | .6     | .1      | .2      | .2      |         |         |         |         |     | 1.5   | 11.1            |
| WNW               | .1    | .5    | .6     | 1.1     | .9      | .4      | .1      |         |         |         |     | 3.6   | 14.3            |
| NW                | .3    | .8    | 1.3    | 1.3     | .9      | .4      | .1      |         |         |         |     | 5.1   | 12.5            |
| NNW               | .3    | .6    | 2.6    | 2.2     | 1.3     | .9      | .1      |         |         |         |     | 7.8   | 13.6            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | 2.0   |                 |
|                   | 6.5   | 24.4  | 38.2   | 17.6    | 7.8     | 3.1     | .4      |         |         |         |     | 100.0 | 9.3             |

TOTAL NUMBER OF OBSERVATIONS 2121

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-68 YEARS NOV MONTH 1800-2000 HOURS (LST.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .0    | 3.1   | 5.6    | 1.6     | 1.1     | .4      |         |         |         |         |     | 12.6  | 9.0             |
| NNE                  | .6    | 4.9   | 7.7    | 1.5     | .1      |         |         |         |         |         |     | 14.0  | 7.3             |
| NE                   | 1.4   | 4.0   | 4.1    | .7      | .1      | .0      |         |         |         |         |     | 10.3  | 6.7             |
| ENE                  | .8    | 2.0   | 1.5    | .2      | .1      |         |         |         |         |         |     | 4.6   | 6.4             |
| E                    | .9    | 2.5   | 1.4    | .1      |         |         |         |         |         |         |     | 5.0   | 5.5             |
| ESE                  | .5    | 1.9   | 1.9    | .1      | .1      |         |         |         |         |         |     | 4.6   | 6.5             |
| SE                   | .6    | 2.7   | 3.7    | .5      | .1      |         |         |         |         |         |     | 7.6   | 7.0             |
| SSE                  | .6    | 1.5   | 3.0    | .5      | .0      | .0      |         |         |         |         |     | 5.7   | 7.5             |
| S                    | .3    | 1.7   | 1.2    | .7      | .3      | .1      |         |         |         |         |     | 4.4   | 8.4             |
| SSW                  | .0    | .7    | 1.0    | .5      | .1      | .1      |         |         |         |         |     | 2.4   | 9.3             |
| SW                   | .1    | .4    | .3     | .2      | .1      |         |         |         |         |         |     | 1.2   | 8.5             |
| WSW                  | .1    | .2    | .3     | .5      | .0      |         |         |         |         |         |     | .8    | 7.1             |
| W                    | .1    | .5    | .2     | .2      | .1      | .0      | .0      | .0      |         |         |     | 1.3   | 10.6            |
| WNW                  | .2    | .6    | .6     | .5      | .3      | .1      |         | .0      |         |         |     | 2.3   | 10.3            |
| NW                   | .6    | 1.2   | 2.9    | 1.9     | .6      | .0      | .0      |         | .0      |         |     | 7.7   | 9.8             |
| NNW                  | .7    | 2.2   | 5.6    | 2.9     | 1.0     | .4      | .1      | .0      |         |         |     | 12.9  | 10.3            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 1.5   |                 |
|                      | 8.4   | 30.5  | 41.1   | 12.3    | 4.3     | 1.3     | .2      | .1      | .0      |         |     | 100.0 | 8.0             |

TOTAL NUMBER OF OBSERVATIONS 2122

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLO-PETERSON FD. YEARS 42-68 MONTH NOV  
CLASS ALL WEATHER NORTH 2100-2300  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .8    | 4.8   | 7.8    | 2.3     | .9      | .2      | .0      |         |         |         |     | 16.9  | 8.6                   |
| NNE                     | .7    | 5.4   | 9.6    | 1.2     | .5      | .0      |         |         |         |         |     | 17.4  | 7.7                   |
| NE                      | .8    | 4.9   | 4.9    | .5      | .0      |         |         |         |         |         |     | 11.1  | 6.6                   |
| ENE                     | .8    | 2.2   | 1.6    | .2      |         |         |         |         |         |         |     | 4.8   | 6.2                   |
| E                       | .5    | 1.6   | 1.9    | .0      | .0      |         |         |         |         |         |     | 3.7   | 6.2                   |
| ESE                     | .3    | 2.1   | 1.5    | .2      | .3      |         |         |         |         |         |     | 4.4   | 7.3                   |
| SE                      | .5    | 1.6   | 2.4    | .6      | .0      | .0      |         |         |         |         |     | 5.1   | 7.5                   |
| SSE                     | .2    | 1.7   | 1.1    | .3      | .1      |         |         |         |         |         |     | 3.6   | 7.1                   |
| S                       | .3    | 1.1   | 1.3    | .5      | .2      |         |         |         |         |         |     | 3.3   | 8.3                   |
| SSW                     | .2    | .3    | .4     | .1      | .1      |         |         |         |         |         |     | 1.3   | 7.4                   |
| SW                      | .3    | .4    | .4     | .1      | .1      |         |         |         |         |         |     | 1.4   | 7.6                   |
| WSW                     | .1    | .3    | .1     | .1      | .1      |         |         |         |         |         |     | 1.0   | 7.1                   |
| W                       | .0    | .3    | .3     |         | .1      | .2      | .0      |         |         |         |     | 1.2   | 11.0                  |
| WNW                     | .4    | .8    | .8     | .4      | .6      | .2      | .0      | .0      |         |         |     | 3.2   | 11.3                  |
| NW                      | .2    | 2.1   | 2.2    | 1.5     | .4      | .3      | .0      |         |         |         |     | 6.8   | 9.7                   |
| NNW                     | .6    | 2.3   | 4.4    | 3.2     | 1.4     | .4      |         | .0      |         |         |     | 12.3  | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.5   |                       |
|                         | 6.6   | 32.4  | 40.3   | 11.3    | 5.1     | 1.4     | .2      | .1      |         |         |     | 100.0 | 8.0                   |

TOTAL NUMBER OF OBSERVATIONS 2126

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FO 42-68 YEARS MONTH ALL HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS) DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|-------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                 | .6    | 3.4   | 5.8    | 2.2     | 1.0     | .4      | .1      | .0      |         |         |     | 13.6  | 9.4             |
| NNE               | .5    | 3.5   | 5.9    | 1.4     | .4      | .1      | .0      | .0      |         |         |     | 11.9  | 8.2             |
| NE                | .7    | 3.3   | 3.2    | .6      | .1      | .0      |         |         |         |         |     | 7.8   | 6.9             |
| ENE               | .3    | 1.8   | 1.2    | .3      | .1      | .0      |         |         |         |         |     | 3.9   | 6.5             |
| E                 | .6    | 1.8   | 1.2    | .2      | .0      | .0      |         |         |         |         |     | 3.9   | 6.2             |
| ESE               | .5    | 1.8   | 1.7    | .3      | .1      | .0      | .0      |         |         |         |     | 4.5   | 7.0             |
| SE                | .7    | 2.7   | 3.4    | 1.0     | .2      | .0      |         |         |         |         |     | 8.0   | 7.5             |
| SSE               | .5    | 2.2   | 3.4    | 1.4     | .3      | .0      |         |         |         |         |     | 7.8   | 8.4             |
| S                 | .5    | 1.8   | 2.1    | .9      | .3      | .1      | .0      |         |         |         |     | 5.7   | 8.3             |
| SSW               | .3    | .9    | 1.0    | .6      | .2      | .1      | .0      | .0      |         |         |     | 3.1   | 9.6             |
| SW                | .3    | .6    | .5     | .2      | .2      | .1      | .0      |         |         |         |     | 1.9   | 8.6             |
| WSW               | .2    | .5    | .2     | .2      | .1      | .0      | .0      | .0      |         |         |     | 1.3   | 8.0             |
| W                 | .2    | .6    | .3     | .2      | .2      | .2      | .1      | .0      |         |         |     | 1.7   | 10.6            |
| WNW               | .2    | .8    | .7     | .6      | .6      | .3      | .1      | .0      | .0      |         |     | 3.3   | 12.3            |
| NW                | .5    | 1.5   | 2.1    | 1.5     | .7      | .4      | .1      | .1      | .0      | .0      |     | 6.9   | 11.0            |
| NNW               | .5    | 1.9   | 4.4    | 2.8     | 1.4     | .8      | .2      | .1      |         |         |     | 12.0  | 11.6            |
| VARBL             |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM              |       |       |        |         |         |         |         |         |         |         |     | 2.6   |                 |
|                   | 7.5   | 29.0  | 37.4   | 14.1    | 5.9     | 2.7     | .7      | .2      | .0      | .0      |     | 100.0 | 8.6             |

TOTAL NUMBER OF OBSERVATIONS 16978

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-68 YEARS DEC  
STATION NAME NORTH  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

| SPEED<br>(KNTS)<br>DIP. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .5    | 4.2   | 11.0   | 3.2     | .8      | .1      |         |         |         |         |     | 19.8  | 8.7                   |
| NNE                     | .8    | 5.3   | 9.1    | 1.9     | .3      |         |         |         |         |         |     | 17.5  | 7.7                   |
| NE                      | .5    | 4.0   | 6.3    | .6      |         |         |         |         |         |         |     | 12.0  | 5.9                   |
| ENE                     | .4    | 1.6   | 1.6    | .3      | .0      |         | .0      |         |         |         |     | 3.9   | 6.8                   |
| E                       | .3    | 1.4   | 1.1    | .2      | .0      |         |         |         |         |         |     | 3.1   | 6.6                   |
| ESE                     | .4    | 1.1   | 1.2    | .1      |         |         | .0      |         |         |         |     | 2.8   | 7.0                   |
| SE                      | .3    | 1.5   | 1.8    | .3      | .0      |         |         |         |         |         |     | 4.1   | 7.4                   |
| SSE                     | .3    | 1.7   | 1.2    | .5      | .1      | .1      |         |         |         |         |     | 3.3   | 8.0                   |
| S                       | .5    | .6    | .5     | .1      | .1      | .0      |         |         |         |         |     | 2.0   | 6.9                   |
| SSW                     | .2    | .2    | .1     | .1      | .1      | .0      |         |         |         |         |     | .9    | 9.0                   |
| SW                      | .3    | .5    | .4     | .1      |         | .1      |         |         |         |         |     | 1.4   | 7.9                   |
| WSW                     | .2    | .5    | .0     | .3      | .1      | .1      |         |         |         |         |     | 1.2   | 10.7                  |
| W                       | .2    | .7    | .5     | .3      | .0      | .1      | .0      | .0      |         |         |     | 2.0   | 9.7                   |
| WNW                     | .1    | 1.1   | 1.0    | .2      | .1      | .1      | .2      |         | .0      |         |     | 2.8   | 10.0                  |
| NW                      | .4    | 1.9   | 3.0    | 1.6     | .7      | .4      |         |         |         |         |     | 7.9   | 10.1                  |
| NNW                     | .3    | 2.5   | 3.3    | 2.9     | 1.1     | .9      | .1      |         |         |         |     | 13.5  | 10.6                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 1.8   |                       |
|                         | 5.6   | 79.4  | 44.0   | 12.8    | 3.8     | 2.1     | .5      | .0      | .0      |         |     | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 2187

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 92937 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 42-68 UEC 0300-0500  
NORTH  
HOURS (L.S.T.)  
CLASS ALL WEATHER  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .7    | 4.4   | 9.7    | 3.2     | .7      | .2      | .0      | .0      |         |         |     | 19.0  | 8.8                   |
| NNE                     | .5    | 4.0   | 9.6    | 2.0     | .5      |         | .0      |         |         |         |     | 16.6  | 8.3                   |
| NE                      | .5    | 3.9   | 6.7    | .7      |         |         |         |         |         |         |     | 11.8  | 7.1                   |
| ENE                     | .4    | 2.2   | 1.5    | .1      |         |         |         |         |         |         |     | 4.2   | 6.0                   |
| E                       | .5    | 1.6   | .9     | .0      |         |         |         |         |         |         |     | 3.2   | 5.5                   |
| ESE                     | .4    | 1.0   | .9     | .2      | .0      |         |         |         |         |         |     | 2.5   | 6.7                   |
| SE                      | .3    | 1.0   | 1.3    | .5      | .0      |         |         |         |         |         |     | 3.2   | 7.9                   |
| SSE                     | .3    | 1.1   | 1.0    | .2      | .1      |         |         |         |         |         |     | 2.7   | 7.1                   |
| S                       | .1    | .7    | .6     | .4      | .1      | .0      |         |         |         |         |     | 2.0   | 8.4                   |
| SSW                     | .3    | .6    | .4     | .1      | .3      |         |         |         |         |         |     | 1.7   | 8.5                   |
| SW                      | .1    | .6    | .6     | .3      | .2      | .1      |         |         |         |         |     | 2.6   | 9.3                   |
| WSW                     | .1    | .3    | .2     | .2      | .0      | .0      |         | .0      |         |         |     | 1.0   | 9.9                   |
| W                       | .3    | .6    | .5     | .2      | .1      | .1      |         | .1      |         |         |     | 1.9   | 9.7                   |
| WNW                     | .1    | 1.2   | .8     | .4      | .3      | .2      | .4      | .1      |         |         |     | 3.4   | 12.4                  |
| NW                      | .3    | 2.3   | 2.5    | 1.0     | .8      | .3      | .0      |         |         |         |     | 8.3   | 10.0                  |
| NNW                     | .2    | 2.2   | 6.3    | 3.3     | 1.2     | .9      | .1      |         |         |         |     | 14.5  | 11.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.0   |                       |
|                         | 5.2   | 26.0  | 43.9   | 13.8    | 4.4     | 1.8     | .5      | .3      |         |         |     | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS 2189

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FO 42-62 YEARS DEC  
STATION NAME NORTH  
ALL WEATHER CLASS 0500-0800 HOURS (L.S.T.)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | 1.0   | 4.0   | 9.4    | 2.8     | .7      | .2      |         |         |         |         |      | 18.2  | 8.6                   |
| NNE                     | .5    | 5.2   | 9.3    | 2.1     | .5      | .0      |         |         |         |         |      | 17.6  | 8.1                   |
| NE                      | .7    | 4.1   | 5.8    | .4      |         |         |         |         |         |         |      | 11.0  | 6.7                   |
| ENE                     | .6    | 2.3   | 1.5    | .2      | .0      |         |         |         |         |         |      | 4.6   | 6.2                   |
| E                       | .4    | 1.5   | .6     | .2      | .1      |         |         |         |         |         |      | 2.8   | 6.4                   |
| ESE                     | .2    | 1.3   | 1.2    | .1      | .0      |         |         |         |         |         |      | 3.0   | 6.3                   |
| SE                      | .3    | 1.5   | .9     | .2      |         |         |         |         |         |         |      | 2.9   | 6.3                   |
| SSE                     | .3    | 1.0   | .6     | .4      |         |         |         |         |         |         |      | 2.4   | 6.9                   |
| S                       | .4    | .9    | .6     | .2      | .0      | .0      |         |         |         |         |      | 2.2   | 7.1                   |
| SSW                     | .2    | .3    | .4     | .3      | .5      | .1      |         |         |         |         |      | 1.8   | 8.0                   |
| SW                      | .1    | .6    | .4     | .3      | .1      |         |         |         |         |         |      | 1.6   | 8.2                   |
| WSW                     | .1    | .5    | .1     | .1      | .0      | .0      |         |         |         |         |      | .9    | 7.7                   |
| W                       |       | .7    | .5     | .2      | .0      |         |         | .0      |         |         |      | 1.5   | 8.5                   |
| WNW                     | .1    | 1.2   | 1.0    | .2      | .2      | .1      | .0      |         |         |         |      | 2.8   | 8.7                   |
| NW                      | .4    | 2.6   | 3.0    | 1.5     | .5      | .2      |         | .0      |         |         |      | 8.2   | 9.2                   |
| NNW                     | .3    | 2.8   | 6.0    | 3.9     | 1.6     | .7      | .1      |         |         |         |      | 15.5  | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.0   |                       |
|                         | 5.7   | 31.0  | 41.4   | 13.0    | 6.1     | 1.5     | .1      | .1      |         |         |      | 100.0 | 8.1                   |

TOTAL NUMBER OF OBSERVATIONS 2191

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 42-68 DEC  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
0900-1100  
HOURS (LST.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 13 | 14 - 17 | 18 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .9    | 1.5   | 2.2    | 2.0     | 1.0     | .3      | .1      | .1      |         |         |         |     | 8.3   | 10.6                  |
| NNE                     | .8    | 2.1   | 1.8    | .8      | .4      | .2      |         |         |         |         |         |     | 6.1   | 8.3                   |
| NE                      | .5    | 1.7   | 1.0    | .3      | .1      |         |         |         |         |         |         |     | 3.8   | 6.5                   |
| ENE                     | .4    | 1.6   | .8     | .3      | .0      |         |         |         |         |         |         |     | 3.1   | 6.4                   |
| E                       | .7    | 2.0   | 1.0    | .2      |         | .0      |         |         |         |         |         |     | 4.0   | 6.1                   |
| ESE                     | 1.1   | 2.9   | 2.6    | .4      | .0      |         |         |         |         |         |         |     | 7.0   | 6.5                   |
| SE                      | 1.4   | 4.3   | 3.1    | 1.0     | .0      |         |         |         |         |         |         |     | 9.8   | 6.8                   |
| SSE                     | 1.1   | 3.7   | 3.4    | 1.3     | .5      | .0      |         |         |         |         |         |     | 10.0  | 7.5                   |
| S                       | 1.2   | 3.1   | 2.0    | 1.0     | .4      | .1      |         |         |         |         |         |     | 7.8   | 7.2                   |
| SSW                     | .8    | 1.6   | 1.1    | .3      | .3      | .1      | .1      |         |         |         |         |     | 4.4   | 8.2                   |
| SW                      | .3    | 1.5   | .9     | .5      | .1      | .1      |         |         |         |         |         |     | 3.5   | 7.7                   |
| WSW                     | .5    | .9    | .5     | .2      | .2      |         |         | .0      |         |         |         |     | 2.3   | 8.0                   |
| W                       | .5    | 1.1   | .2     | .3      | .2      | .0      | .0      |         |         | .0      |         |     | 2.5   | 8.6                   |
| WNW                     | .4    | 1.3   | .5     | .5      | .6      | .6      | .3      |         |         | .0      |         |     | 4.3   | 13.1                  |
| NW                      | .5    | 1.8   | 1.1    | 1.6     | 1.0     | .8      | .1      |         |         |         |         |     | 7.0   | 11.9                  |
| NNW                     | .3    | 2.4   | 2.3    | 2.3     | 1.8     | 1.0     | .1      |         |         |         |         |     | 10.6  | 11.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |         |     | 5.5   |                       |
|                         | 11.8  | 33.8  | 24.9   | 12.9    | 6.7     | 3.4     | .8      | .1      | .0      | .0      | .0      |     | 100.0 | 8.2                   |

TOTAL NUMBER OF OBSERVATIONS 2204

DATA PROCESSING DIVISION  
ETAG, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93024 STATION NAME COLORADO SPRINGS COLO-PETERSON FD YEARS 42-66 DEC 1200-1400  
NORTH  
CLASS ALL WEATHER  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .1    | .5    | 1.6    | 2.4     | 1.5     | .6      | .0      | .1      | .0      |         |     | 6.8   | 14.2                  |
| NNE                     | .1    | .5    | 1.0    | 1.7     | .5      | .1      |         |         |         |         |     | 3.1   | 11.6                  |
| NE                      | .2    | .4    | .6     | .4      | .2      | .0      |         |         |         |         |     | 1.9   | 9.2                   |
| ENE                     |       | .6    | .6     | .2      |         | .0      |         |         |         |         |     | 1.6   | 8.1                   |
| E                       | .3    | .9    | .8     | .3      | .0      |         |         |         |         |         |     | 2.3   | 7.1                   |
| ESE                     | .4    | 2.2   | 2.2    | .5      |         |         |         |         |         |         |     | 5.3   | 6.7                   |
| SE                      | .8    | 4.4   | 5.8    | 2.3     | .3      | .1      |         |         |         |         |     | 13.8  | 8.0                   |
| SSE                     | 1.0   | 5.0   | 5.3    | 3.1     | .8      | .1      |         |         |         |         |     | 18.2  | 8.5                   |
| S                       | 1.0   | 3.7   | 5.2    | 2.3     | .2      |         | .0      |         |         |         |     | 12.4  | 8.1                   |
| SSW                     | .8    | 2.7   | 1.5    | .5      | .6      | .2      | .0      |         |         |         |     | 6.3   | 8.3                   |
| SW                      | .6    | 1.1   | .8     | .4      | .5      | .4      |         |         |         |         |     | 3.7   | 9.9                   |
| WSW                     | .2    | .6    | .1     | .3      | .4      | .1      | .0      |         |         |         |     | 1.9   | 10.8                  |
| W                       | .2    | .4    | .4     | .3      | .3      | .3      | .1      |         |         |         |     | 2.1   | 12.5                  |
| WNW                     | .3    | .7    | .5     | .8      | 1.3     | 1.1     | .4      |         |         |         |     | 5.1   | 16.0                  |
| NW                      | .2    | .8    | .6     | .6      | 1.1     | .6      | .1      | .1      |         |         |     | 4.2   | 14.4                  |
| NNW                     | .2    | .5    | 1.6    | 1.4     | 2.2     | 1.6     | .1      | .1      |         |         |     | 7.9   | 15.8                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CA/M                    |       |       |        |         |         |         |         |         |         |         |     | 3.3   |                       |
|                         | 6.5   | 25.1  | 31.6   | 16.7    | 10.0    | 5.5     | .9      | .3      | .0      |         |     | 100.0 | 9.8                   |

TOTAL NUMBER OF OBSERVATIONS 2190

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 93037 STATION NAME COLORADO SPRINGS COLG-PETERSON FD YEARS 42-69 DEC DEC  
STATION 93037 STATION NAME COLORADO SPRINGS COLG-PETERSON FD YEARS 42-69 DEC DEC  
CLASS ALL WEATHER MONTH 1900-1700  
CONDITION  HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.1   | 3.0    | 1.9     | 1.9     | .4      | .0      |         |         |         |      | 7.7   | 11.3                  |
| NNE                     | .4    | 1.3   | 2.2    | 1.7     | .6      | .1      |         |         |         |         |      | 6.2   | 9.8                   |
| NE                      | .3    | 1.2   | 1.5    | .5      | .1      |         |         |         |         |         |      | 3.6   | 7.4                   |
| ENE                     | .5    | 1.6   | 1.2    | .3      |         | .9      |         |         |         |         |      | 3.8   | 7.0                   |
| E                       | .3    | 1.9   | 1.5    | .1      |         | .1      |         |         |         |         |      | 3.9   | 6.7                   |
| ESE                     | .5    | 2.7   | 2.6    | .3      | .0      | .1      |         |         |         |         |      | 6.2   | 6.9                   |
| SE                      | .6    | 3.5   | 6.4    | 1.3     | .3      | .0      |         |         |         |         |      | 12.2  | 7.8                   |
| SSE                     | .5    | 4.1   | 7.0    | 1.9     | .3      | .0      |         |         |         |         |      | 13.8  | 8.0                   |
| S                       | 1.0   | 3.6   | 2.3    | .8      | .1      | .0      |         |         |         |         |      | 8.8   | 6.9                   |
| SSW                     | .4    | 1.2   | .8     | .4      | .6      | .2      |         |         |         |         |      | 3.6   | 4.9                   |
| SW                      | .5    | 1.1   | .7     | .5      | .2      | .1      |         |         |         |         |      | 3.2   | 8.0                   |
| WSW                     | .0    | .5    | .5     | .4      | .1      |         |         |         |         |         |      | 1.5   | 9.4                   |
| W                       | .2    | .7    | .3     | .2      | .3      | .0      | .0      |         |         |         |      | 1.8   | 9.4                   |
| WNW                     | .4    | .7    | .5     | .7      | .9      | .5      | .1      | .0      |         |         |      | 3.9   | 13.5                  |
| NW                      | .5    | 1.4   | 2.3    | 1.7     | .9      | .6      |         |         |         |         |      | 7.4   | 11.3                  |
| NNW                     | .4    | 1.2   | 2.1    | 2.6     | 1.5     | 1.0     | .0      | .1      |         |         |      | 9.0   | 13.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.2   |                       |
|                         | 6.9   | 27.6  | 36.0   | 15.6    | 6.9     | 3.3     | .3      | .2      |         |         |      | 100.0 | 8.7                   |

TOTAL NUMBER OF OBSERVATIONS 2196

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 COLORADO SPRINGS COLO-PETERSON FD 42-68

STATION STATION NAME YEARS

ALL WEATHER

CLASS

CONDITION

DEC MONTH

1900-2000

HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .6    | 4.3   | 7.4    | 3.1     | .7      | .2      | .0      |         |         |         |     | 16.5  | 8.8                   |
| NNE                     | .5    | 4.6   | 1.7    | 1.7     | .6      | .0      |         |         |         |         |     | 13.2  | 8.1                   |
| NE                      | .2    | 4.3   | 4.1    | .4      |         |         |         |         |         |         |     | 9.3   | 6.6                   |
| ENE                     | .4    | 2.6   | 1.5    | .4      |         |         |         |         |         |         |     | 4.9   | 6.3                   |
| E                       | .5    | 3.0   | 1.5    | .2      |         |         |         |         |         |         |     | 5.1   | 5.9                   |
| ESE                     | .5    | 2.0   | 1.6    | .2      |         | .0      | .0      |         |         |         |     | 4.3   | 6.6                   |
| SE                      | .3    | 2.3   | 2.4    | .3      | .1      |         |         |         |         |         |     | 5.4   | 6.9                   |
| SSE                     | .4    | 1.8   | 1.6    | .8      | .0      |         |         |         |         |         |     | 4.6   | 7.5                   |
| S                       | .4    | 1.4   | 1.5    | .5      | .2      |         |         |         |         |         |     | 3.9   | 7.7                   |
| SSW                     | .0    | .5    | .4     | .4      | .0      | .1      |         |         |         |         |     | 1.4   | 9.4                   |
| SW                      | .2    | .4    | .5     | .2      |         |         |         |         |         |         |     | 1.3   | 7.2                   |
| WSW                     | .0    | .4    | .1     | .1      | .2      |         |         |         |         |         |     | .4    | 9.4                   |
| W                       | .3    | .4    | .8     | .4      | .1      | .1      | .1      |         |         |         |     | 2.1   | 9.6                   |
| WNW                     | .1    | .9    | .7     | .5      | .1      | .3      |         |         |         |         |     | 2.6   | 10.2                  |
| NW                      | .4    | 1.4   | 2.8    | 1.4     | .8      | .2      | .1      | .0      |         |         |     | 7.1   | 10.4                  |
| NNW                     | .2    | 2.9   | 5.5    | 2.6     | 1.2     | .6      | .2      |         |         |         |     | 13.1  | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.4   |                       |
|                         | 5.4   | 33.0  | 40.1   | 13.1    | 4.1     | 1.5     | .5      | .0      |         |         |     | 100.0 | 8.1                   |

TOTAL NUMBER OF OBSERVATIONS 2199

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FO 42-56 YEARS DEC MONTH 2100-2300 HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | 1.2   | 4.4   | 8.7    | 2.3     | .8      | .1      |         |         |         |         |      | 17.5  | 8.4                   |
| NNE                     | .9    | 5.1   | 10.0   | 1.2     | .3      | .1      |         |         |         |         |      | 17.7  | 7.6                   |
| NE                      | .7    | 4.8   | 6.6    | .3      | .0      |         |         |         |         |         |      | 12.3  | 6.6                   |
| ENE                     | .3    | 2.9   | 1.3    | .2      | .1      | .0      |         |         |         |         |      | 4.9   | 6.5                   |
| E                       | .4    | 1.7   | 1.0    | .1      | .1      |         |         |         |         |         |      | 3.4   | 6.4                   |
| ESE                     | .4    | 1.8   | 1.3    | .2      | .0      |         |         |         |         |         |      | 3.7   | 6.4                   |
| SE                      | .5    | 1.4   | 1.5    | .5      |         |         |         |         |         |         |      | 4.0   | 7.0                   |
| SSE                     | .1    | .9    | 1.3    | .7      | .2      |         |         |         |         |         |      | 3.2   | 8.7                   |
| S                       | .4    | .7    | 1.0    | .4      | .0      |         |         |         |         |         |      | 2.6   | 7.2                   |
| SSW                     | .2    | .6    | .5     | .1      | .1      |         |         |         |         |         |      | 1.5   | 7.2                   |
| SW                      | .2    | .5    | .4     | .2      | .2      |         |         |         |         |         |      | 1.5   | 8.5                   |
| WSW                     | .1    | .3    | .1     | .1      | .2      | .0      |         |         |         |         |      | .9    | 10.4                  |
| W                       | .2    | .4    | .3     | .1      | .0      |         |         |         |         |         |      | 1.0   | 6.7                   |
| WNW                     |       | 1.1   | .9     | .4      | .3      | .2      |         | .0      |         |         |      | 3.0   | 10.7                  |
| NW                      | .6    | 1.7   | 2.8    | 1.4     | .6      | .5      | .2      |         |         |         |      | 7.8   | 10.4                  |
| NNW                     | .2    | 2.1   | 5.1    | 2.7     | 1.0     | .8      | .1      |         |         |         |      | 12.0  | 10.9                  |
| VARNL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.8   |                       |
|                         | 6.5   | 30.5  | 42.8   | 11.0    | 4.1     | 1.9     | .3      | .0      |         |         |      | 100.0 | 8.0                   |

TOTAL NUMBER OF OBSERVATIONS 2194

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO-PETERSON FD 42-68 YEARS DEC MONTH ALL HOURS (L.C.T.)

ALL WEATHER CLASS

CONDITION

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------|
| N                    | .7    | 3.1   | 6.6    | 2.6     | .9      | .3      | .0      | .0      | .0      |         |     | 14.2  | 9.3             |
| NNE                  | .5    | 3.5   | 6.3    | 1.5     | .5      | .1      | .0      |         |         |         |     | 12.5  | 8.2             |
| NE                   | .5    | 3.1   | 4.1    | .4      | .1      | .0      |         |         |         |         |     | 8.2   | 6.9             |
| ENE                  | .4    | 1.9   | 1.2    | .3      | .0      | .0      | .0      |         |         |         |     | 3.9   | 6.5             |
| E                    | .4    | 1.7   | 1.1    | .2      | .0      | .0      |         |         |         |         |     | 3.5   | 6.3             |
| ESE                  | .5    | 1.9   | 1.7    | .2      | .0      | .0      | .0      |         |         |         |     | 4.4   | 6.6             |
| SE                   | .6    | 2.9   | 2.9    | .9      | .1      | .0      |         |         |         |         |     | 6.9   | 7.4             |
| SSE                  | .5    | 2.3   | 3.1    | 1.1     | .2      | .0      |         |         |         |         |     | 7.3   | 8.0             |
| S                    | .6    | 1.9   | 1.8    | .7      | .1      | .0      | .0      |         |         |         |     | 5.2   | 7.5             |
| SSW                  | .4    | 1.0   | .6     | .3      | .3      | .1      | .0      |         |         |         |     | 2.7   | 8.6             |
| SW                   | .3    | .8    | .6     | .3      | .2      | .1      |         |         |         |         |     | 2.3   | 8.5             |
| WSW                  | .2    | .5    | .2     | .2      | .2      | .1      | .0      | .0      |         |         |     | 1.5   | 9.5             |
| W                    | .2    | .6    | .4     | .2      | .2      | .1      | .0      | .0      |         | .0      |     | 1.9   | 9.5             |
| WNW                  | .2    | 1.0   | .7     | .5      | .5      | .4      | .2      | .0      | .0      |         |     | 3.5   | 12.3            |
| NW                   | .4    | 1.7   | 2.3    | 1.4     | .8      | .5      | .1      | .0      |         |         |     | 7.2   | 10.7            |
| NNW                  | .3    | 2.1   | 4.3    | 2.7     | 1.5     | .9      | .1      | .0      |         |         |     | 12.0  | 11.6            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |     |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |     | 3.0   |                 |
|                      | 6.7   | 29.8  | 38.1   | 13.6    | 5.5     | 2.6     | .5      | .1      | .0      | .0      |     | 100.0 | 8.5             |

TOTAL NUMBER OF OBSERVATIONS 17550

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93087 STATION COLD SPRINGS COLD-PETERSON FD 42-58 YEARS ALL MONTH ALL HOURS (L.S.T.)

ALL WEATHER

CONDITION

| SPEED (KNTS) | 1-3 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | ≥56 | %     | MEAN WIND SPEED |
|--------------|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----------------|
| DIR.         |     |      |      |       |       |       |       |       |       |       |     |       |                 |
| N            | .6  | 2.9  | 5.1  | 2.2   | 1.0   | .4    | .1    | .0    | .0    |       |     | 12.2  | 9.6             |
| NNE          | .5  | 3.1  | 4.7  | 1.3   | .4    | .1    | .0    | .0    |       |       |     | 10.1  | 8.2             |
| NE           | .5  | 2.7  | 2.8  | .6    | .2    | .0    | .0    | .0    |       |       |     | 6.8   | 7.3             |
| ENE          | .4  | 1.7  | 1.4  | .4    | .1    | .0    | .0    |       |       |       |     | 2.9   | 7.0             |
| E            | .5  | 1.7  | 1.3  | .3    | .1    | .0    | .0    |       |       |       |     | 4.0   | 6.8             |
| ESE          | .4  | 1.8  | 2.0  | .6    | .1    | .0    | .0    | .0    | .0    |       |     | 5.0   | 7.3             |
| SE           | .6  | 2.4  | 3.8  | 1.6   | .3    | .0    | .0    | .0    |       |       |     | 8.8   | 8.4             |
| SSE          | .6  | 2.2  | 3.9  | 2.4   | .7    | .1    | .0    | .0    |       |       |     | 9.9   | 9.5             |
| S            | .3  | 1.7  | 2.4  | 1.4   | .5    | .1    | .0    | .0    | .0    |       |     | 6.7   | 9.3             |
| SSW          | .3  | 1.1  | 1.1  | .7    | .4    | .2    | .0    | .0    |       |       |     | 3.9   | 10.1            |
| SW           | .3  | .8   | .6   | .4    | .3    | .1    | .0    | .0    | .0    |       |     | 2.6   | 9.8             |
| WSW          | .2  | .5   | .3   | .3    | .2    | .1    | .0    | .0    | .0    |       |     | 1.5   | 9.6             |
| W            | .2  | .5   | .4   | .2    | .2    | .1    | .0    | .0    | .0    | .0    |     | 1.8   | 9.8             |
| WNW          | .2  | .8   | .7   | .5    | .4    | .3    | .1    | .0    | .0    | .0    |     | 3.1   | 11.5            |
| NW           | .4  | 1.5  | 2.0  | 1.2   | .6    | .3    | .1    | .0    | .0    | .0    |     | 6.2   | 10.3            |
| NNW          | .4  | 2.0  | 4.0  | 2.7   | 1.4   | .7    | .2    | .0    | .0    |       |     | 11.4  | 11.4            |
| VARBL        |     |      |      |       |       |       |       |       |       |       |     |       |                 |
| CALM         |     |      |      |       |       |       |       |       |       |       |     | 2.1   |                 |
|              | 6.7 | 27.3 | 36.9 | 15.8  | 6.8   | 2.7   | .6    | .1    | .0    | .0    |     | 100.0 | 9.0             |

TOTAL NUMBER OF OBSERVATIONS 198395

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93037  
STATION

COLORADO SPRINGS COLG-PETERSON FO 42-68  
STATION NAME YEARS

ALL  
MONTH

### INSTRUMENT

CIG 200 TO 1400 FT w/ VSBY 1/2 MI OR MORE,

AND/OR VSBY 1/2 TO 2-1/2 MI w/CIG 200 FT OR MORE

ALL  
HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.1   | 1.4    | 1.2     | .8      | .5      | .1      | .0      | .0      |         |      | 5.6   | 11.0                  |
| NNE                     | .3    | 1.1   | 1.0    | .6      | .3      | .1      | .0      | .0      |         |         |      | 3.4   | 8.9                   |
| NE                      | .4    | 1.1   | 1.0    | .3      | .1      | .0      |         | .0      |         |         |      | 3.0   | 7.3                   |
| ENE                     | .5    | 1.3   | 1.0    | .3      | .0      | .0      |         |         |         |         |      | 3.2   | 6.7                   |
| E                       | .7    | 1.9   | 1.8    | .4      | .1      | .0      | .0      |         |         |         |      | 5.0   | 6.9                   |
| ESE                     | .5    | 2.8   | 2.8    | .9      | .2      | .0      | .0      |         | .0      |         |      | 7.2   | 7.6                   |
| SE                      | .7    | 4.7   | 7.7    | 3.5     | .6      | .1      | .0      |         |         |         |      | 17.5  | 8.6                   |
| SSE                     | 1.0   | 4.5   | 8.2    | 4.3     | .7      | .0      |         |         |         |         |      | 18.6  | 8.7                   |
| S                       | 1.1   | 3.4   | 3.9    | 1.3     | .2      |         |         |         |         |         |      | 9.8   | 7.2                   |
| SSW                     | .6    | 2.0   | .9     | .2      | .0      | .0      |         |         |         |         |      | 3.7   | 5.9                   |
| SW                      | .5    | 1.0   | .3     | .0      | .0      | .0      | .0      |         |         |         |      | 1.3   | 5.4                   |
| WSW                     | .3    | .7    | .1     | .0      | .0      |         |         |         |         |         |      | 1.2   | 5.0                   |
| W                       | .4    | .5    | .1     |         |         | .0      |         | .0      |         |         |      | 1.0   | 4.9                   |
| WNW                     | .4    | .9    | .2     | .1      | .1      | .0      |         | .0      | .0      | .0      |      | 1.8   | 6.9                   |
| NW                      | .4    | 1.1   | 1.2    | 1.0     | .6      | .4      | .1      |         |         |         |      | 4.9   | 11.2                  |
| NNW                     | .4    | 1.4   | 2.1    | 2.0     | 1.7     | 1.0     | .4      | .1      | .0      |         |      | 9.0   | 13.8                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | 3.2   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |       |                       |
|                         | 6.9   | 29.7  | 33.5   | 16.1    | 5.4     | 2.3     | .7      | .1      | .1      | .0      |      | 100.0 | 8.5                   |

TOTAL NUMBER OF OBSERVATIONS

11228

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART D

## CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand columns. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period will be eliminated from the summary for short periods or be limited to ceilings at or below 10,000 feet. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
|-------------------|----------------------------|----------|----------|----------|----------|---------------------|----------|---------------------|---------------------|----------|--------------------|--------------------|--------------------|----------|
|                   | $\geq 10$                  | $\geq 6$ | $\geq 5$ | $\geq 4$ | $\geq 3$ | $\geq 2\frac{1}{2}$ | $\geq 2$ | $\geq 1\frac{1}{2}$ | $\geq 1\frac{1}{4}$ | $\geq 1$ | $\geq \frac{3}{4}$ | $\geq \frac{1}{2}$ | $\geq \frac{1}{4}$ | $\geq 0$ |
| NO CEILING        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 1800$       |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 1500$       |                            |          |          |          | 91.0     |                     |          |                     |                     |          |                    |                    |                    | 92.6     |
| $\geq 1200$       |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 1000$       |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 900$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 800$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 700$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 600$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 500$        |                            |          |          |          |          |                     |          |                     | 97.4                |          |                    |                    |                    | 98.1     |
| $\geq 400$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 300$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 200$        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |
| $\geq 100$        |                            |          |          |          | 95.4     |                     | 96.9     |                     | 98.3                |          |                    |                    |                    | 100.0    |
| $\geq 0$          |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |          |

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

01037  
STATION

COLORADO SPRINGS COLORADO-PETERSON FLD.  
STATION NAME

43-00  
YEARS

12  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6,103-02-00  
HOURS (LST)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 67.4                       | 74.1 | 68.4 | 78.2 | 68.0 | 68.0 | 68.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.7  | 77.7 | 77.7   | 77.7 | 77.7 |
| ≥ 18000               | 77.3                       | 78.2 | 78.5 | 78.6 | 73.7 | 75.7 | 76.8 | 78.6 | 78.9 | 78.8 | 78.7 | 78.7  | 78.7 | 78.7   | 78.7 | 78.7 |
| ≥ 16000               | 79.2                       | 80.1 | 80.4 | 80.5 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7  | 80.7 | 80.7   | 80.7 | 80.7 |
| ≥ 14000               | 81.7                       | 82.6 | 82.9 | 83.1 | 83.2 | 83.2 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3  | 83.3 | 83.3   | 83.3 | 83.3 |
| ≥ 12000               | 82.4                       | 82.4 | 82.7 | 82.9 | 83.0 | 83.0 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1  | 83.1 | 83.1   | 83.1 | 83.1 |
| ≥ 10000               | 84.3                       | 85.2 | 85.6 | 85.7 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9   | 85.9 | 85.9 |
| ≥ 9000                | 85.5                       | 85.6 | 85.8 | 86.0 | 86.1 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2 | 86.2   | 86.2 | 86.2 |
| ≥ 8000                | 84.9                       | 85.8 | 86.2 | 86.4 | 86.5 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6 | 86.6   | 86.6 | 86.6 |
| ≥ 7000                | 85.0                       | 86.0 | 86.4 | 86.6 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8 | 86.8   | 86.8 | 86.8 |
| ≥ 6000                | 85.2                       | 86.3 | 86.7 | 86.9 | 87.0 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 | 87.1 |
| ≥ 5000                | 85.6                       | 86.7 | 87.2 | 87.4 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5  | 87.5 | 87.5   | 87.5 | 87.5 |
| ≥ 4500                | 85.8                       | 87.0 | 87.5 | 87.6 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8 | 87.8   | 87.8 | 87.8 |
| ≥ 4000                | 86.4                       | 87.7 | 88.2 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5   | 88.5 | 88.5 |
| ≥ 3500                | 86.9                       | 88.3 | 88.7 | 89.0 | 89.1 | 89.1 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2  | 89.2 | 89.2   | 89.2 | 89.2 |
| ≥ 3000                | 87.3                       | 88.8 | 89.3 | 89.6 | 89.7 | 89.7 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9  | 89.9 | 89.9   | 89.9 | 89.9 |
| ≥ 2500                | 87.7                       | 89.1 | 89.6 | 89.9 | 90.1 | 90.1 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  | 90.3 | 90.3   | 90.3 | 90.3 |
| ≥ 2000                | 87.9                       | 89.4 | 90.0 | 90.8 | 91.1 | 91.1 | 91.3 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4   | 91.4 | 91.4 |
| ≥ 1800                | 88.2                       | 90.2 | 91.0 | 91.3 | 91.7 | 91.7 | 91.9 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0  | 92.0 | 92.0   | 92.0 | 92.0 |
| ≥ 1500                | 88.5                       | 90.6 | 91.6 | 92.0 | 92.4 | 92.4 | 92.6 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9   | 92.9 | 92.9 |
| ≥ 1200                | 88.8                       | 91.2 | 92.2 | 92.6 | 93.1 | 93.1 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8   | 93.8 | 93.8 |
| ≥ 1000                | 89.1                       | 91.7 | 92.7 | 93.2 | 93.8 | 93.8 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5   | 94.5 | 94.5 |
| ≥ 900                 | 89.3                       | 92.1 | 93.0 | 93.5 | 94.2 | 94.2 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 | 94.9 |
| ≥ 800                 | 89.4                       | 92.2 | 93.2 | 93.7 | 94.5 | 94.5 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3   | 95.3 | 95.3 |
| ≥ 700                 | 89.5                       | 92.3 | 93.3 | 93.8 | 94.6 | 94.6 | 95.3 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6  | 95.6 | 95.6   | 95.6 | 95.6 |
| ≥ 600                 | 89.5                       | 92.3 | 93.3 | 93.8 | 94.7 | 94.7 | 95.4 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 | 95.8 |
| ≥ 500                 | 89.5                       | 92.4 | 93.5 | 94.1 | 95.0 | 95.0 | 95.8 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1  | 96.1 | 96.1   | 96.1 | 96.1 |
| ≥ 400                 | 89.5                       | 92.6 | 93.7 | 94.4 | 95.3 | 95.3 | 96.0 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4 |
| ≥ 300                 | 89.5                       | 92.8 | 93.9 | 94.7 | 95.6 | 95.6 | 96.4 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7   | 96.7 | 96.7 |
| ≥ 200                 | 89.5                       | 92.8 | 93.9 | 94.7 | 95.7 | 95.7 | 96.5 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 | 96.8 |
| ≥ 100                 | 89.5                       | 92.8 | 93.9 | 94.7 | 95.7 | 95.7 | 96.5 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 | 96.8 |
| ≥ 0                   | 89.5                       | 92.8 | 93.9 | 94.7 | 95.7 | 95.7 | 96.5 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 | 96.8 |

TOTAL NUMBER OF OBSERVATIONS

2165

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28611

# CEILING VERSUS VISIBILITY

93037 COLORADO SPRINGS COLC-PETERSON, CO

63-63

JAN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13.0000  
HOURS (15.7)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 68.2                       | 68.9 | 69.0 | 69.2 | 69.3 | 69.3 | 69.4 | 69.4 | 69.4 | 69.4 | 69.4 | 69.4  | 69.4 | 69.4   | 69.4 | 69.4 |
| ≥ 20000           | 78.0                       | 78.7 | 78.8 | 79.1 | 79.3 | 79.3 | 79.3 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4  | 79.5 | 79.5   | 79.5 | 79.5 |
| ≥ 18000           | 78.8                       | 79.0 | 79.7 | 80.0 | 80.1 | 80.1 | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3  | 80.4 | 80.4   | 80.4 | 80.4 |
| ≥ 16000           | 80.6                       | 81.3 | 81.5 | 81.8 | 81.9 | 81.9 | 81.9 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0  | 82.1 | 82.1   | 82.1 | 82.2 |
| ≥ 14000           | 82.2                       | 82.9 | 83.1 | 83.4 | 83.5 | 83.5 | 83.6 | 83.6 | 83.7 | 83.7 | 83.7 | 83.7  | 83.8 | 83.8   | 83.8 | 83.8 |
| ≥ 12000           | 84.0                       | 84.7 | 85.0 | 85.3 | 85.5 | 85.5 | 85.6 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7  | 85.8 | 85.8   | 85.8 | 85.8 |
| ≥ 10000           | 84.8                       | 85.5 | 85.8 | 86.1 | 86.3 | 86.3 | 86.4 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5  | 86.6 | 86.6   | 86.6 | 86.6 |
| ≥ 9000            | 85.0                       | 85.8 | 86.0 | 86.3 | 86.5 | 86.5 | 86.6 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.8 | 86.8   | 86.8 | 86.8 |
| ≥ 8000            | 85.4                       | 86.1 | 86.4 | 86.7 | 86.9 | 86.9 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.2 | 87.2   | 87.2 | 87.2 |
| ≥ 7000            | 85.7                       | 86.4 | 86.7 | 87.0 | 87.1 | 87.1 | 87.2 | 87.3 | 87.4 | 87.4 | 87.4 | 87.4  | 87.5 | 87.5   | 87.5 | 87.5 |
| ≥ 6000            | 86.1                       | 86.9 | 87.2 | 87.3 | 87.6 | 87.6 | 87.7 | 87.8 | 87.9 | 88.0 | 88.0 | 88.0  | 88.1 | 88.1   | 88.1 | 88.1 |
| ≥ 5000            | 86.7                       | 87.0 | 87.9 | 88.2 | 88.3 | 88.3 | 88.4 | 88.5 | 88.6 | 88.7 | 88.7 | 88.7  | 88.8 | 88.8   | 88.8 | 88.8 |
| ≥ 4500            | 86.9                       | 87.8 | 88.2 | 88.3 | 88.7 | 88.7 | 88.8 | 88.9 | 89.0 | 89.0 | 89.0 | 89.0  | 89.1 | 89.1   | 89.1 | 89.1 |
| ≥ 4000            | 87.2                       | 88.3 | 88.8 | 89.1 | 89.3 | 89.3 | 89.4 | 89.4 | 89.5 | 89.6 | 89.6 | 89.6  | 89.7 | 89.7   | 89.7 | 89.7 |
| ≥ 3500            | 87.3                       | 88.5 | 89.0 | 89.3 | 89.4 | 89.4 | 89.5 | 89.6 | 89.7 | 89.8 | 89.8 | 89.8  | 89.9 | 89.9   | 89.9 | 89.9 |
| ≥ 3000            | 87.3                       | 88.6 | 89.2 | 89.6 | 89.8 | 89.8 | 89.9 | 90.0 | 90.0 | 90.1 | 90.1 | 90.1  | 90.2 | 90.2   | 90.2 | 90.2 |
| ≥ 2500            | 87.5                       | 89.1 | 89.8 | 90.2 | 90.5 | 90.5 | 90.6 | 90.7 | 90.7 | 91.0 | 91.0 | 91.0  | 91.1 | 91.1   | 91.1 | 91.1 |
| ≥ 2000            | 88.1                       | 89.8 | 90.6 | 91.1 | 91.4 | 91.4 | 91.6 | 91.8 | 91.9 | 92.1 | 92.1 | 92.1  | 92.2 | 92.2   | 92.2 | 92.2 |
| ≥ 1800            | 88.1                       | 89.9 | 90.7 | 91.2 | 91.6 | 91.6 | 91.8 | 92.2 | 92.2 | 92.4 | 92.4 | 92.4  | 92.6 | 92.6   | 92.6 | 92.6 |
| ≥ 1500            | 88.3                       | 90.1 | 91.2 | 91.8 | 92.3 | 92.3 | 92.5 | 92.9 | 92.9 | 93.2 | 93.2 | 93.2  | 93.4 | 93.4   | 93.4 | 93.4 |
| ≥ 1200            | 88.5                       | 90.7 | 91.8 | 92.7 | 93.2 | 93.3 | 93.6 | 94.0 | 94.1 | 94.5 | 94.5 | 94.5  | 94.7 | 94.7   | 94.7 | 94.7 |
| ≥ 1000            | 88.5                       | 90.9 | 92.1 | 93.0 | 93.6 | 93.6 | 94.2 | 94.7 | 94.8 | 95.2 | 95.3 | 95.3  | 95.4 | 95.4   | 95.4 | 95.4 |
| ≥ 900             | 89.0                       | 91.1 | 92.3 | 93.1 | 93.7 | 93.8 | 94.3 | 94.9 | 94.9 | 95.3 | 95.4 | 95.4  | 95.6 | 95.6   | 95.6 | 95.7 |
| ≥ 800             | 89.1                       | 91.2 | 92.4 | 93.4 | 94.0 | 94.1 | 94.7 | 95.3 | 95.3 | 95.7 | 95.9 | 95.9  | 96.0 | 96.0   | 96.0 | 96.2 |
| ≥ 700             | 89.1                       | 91.3 | 92.6 | 93.5 | 94.1 | 94.2 | 94.9 | 95.5 | 95.5 | 96.0 | 96.4 | 96.4  | 96.5 | 96.5   | 96.5 | 96.7 |
| ≥ 600             | 89.3                       | 91.7 | 92.9 | 93.9 | 94.6 | 94.6 | 95.3 | 96.0 | 96.0 | 96.6 | 97.0 | 97.0  | 97.2 | 97.2   | 97.2 | 97.3 |
| ≥ 500             | 89.4                       | 91.9 | 93.2 | 94.2 | 94.9 | 94.9 | 95.7 | 96.4 | 96.4 | 97.1 | 97.5 | 97.5  | 97.8 | 97.8   | 97.8 | 98.0 |
| ≥ 400             | 89.4                       | 92.0 | 93.3 | 94.3 | 95.0 | 95.1 | 95.9 | 96.6 | 96.6 | 97.3 | 97.7 | 97.7  | 98.1 | 98.1   | 98.1 | 98.3 |
| ≥ 300             | 89.5                       | 92.1 | 93.4 | 94.3 | 95.2 | 95.3 | 96.1 | 96.8 | 96.8 | 97.6 | 98.0 | 98.0  | 98.4 | 98.4   | 98.4 | 98.6 |
| ≥ 200             | 89.5                       | 92.1 | 93.4 | 94.5 | 95.2 | 95.3 | 96.2 | 96.9 | 96.9 | 97.6 | 98.1 | 98.1  | 98.7 | 98.7   | 98.8 | 98.9 |
| ≥ 100             | 89.5                       | 92.1 | 93.4 | 94.5 | 95.3 | 95.3 | 96.2 | 96.9 | 97.0 | 97.8 | 98.2 | 98.2  | 98.8 | 98.8   | 98.9 | 99.1 |
| ≥ 0               | 89.5                       | 92.1 | 93.4 | 94.5 | 95.3 | 95.3 | 96.2 | 96.9 | 97.0 | 97.8 | 98.2 | 98.2  | 98.8 | 98.8   | 99.0 | 99.2 |

TOTAL NUMBER OF OBSERVATIONS 2170

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

930.7 COLORADO SPRINGS GOLD-PETERSON FC

1970

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01-12-31-70  
HOURS (L.S.T.)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0   |
| NO CEILING      | 55.3                       | 50.1 | 50.1 | 50.5 | 50.6 | 50.7 | 50.7 | 50.7 | 51.7 | 50.0 | 50.7 | 50.0  | 50.5 | 50.0   | 54.5 | 50.9  |
| ≥ 20000         | 71.2                       | 72.0 | 72.1 | 72.5 | 72.6 | 72.6 | 72.7 | 72.8 | 72.6 | 72.9 | 72.3 | 72.9  | 73.0 | 73.0   | 73.1 | 73.2  |
| ≥ 18000         | 72.7                       | 73.0 | 73.7 | 74.1 | 74.3 | 74.3 | 74.4 | 74.4 | 74.4 | 74.6 | 74.7 | 74.6  | 74.6 | 74.7   | 74.7 | 74.8  |
| ≥ 16000         | 75.3                       | 76.6 | 76.3 | 76.8 | 76.9 | 76.9 | 77.0 | 77.1 | 77.1 | 77.2 | 77.1 | 77.2  | 77.3 | 77.3   | 77.4 | 77.4  |
| ≥ 14000         | 78.7                       | 74.5 | 79.7 | 80.1 | 80.3 | 80.4 | 80.5 | 80.5 | 80.5 | 80.5 | 80.6 | 80.7  | 80.7 | 80.7   | 80.8 | 80.9  |
| ≥ 12000         | 82.3                       | 83.5 | 83.5 | 84.0 | 84.2 | 84.2 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.7  | 84.7 | 84.7   | 84.7 | 84.8  |
| ≥ 10000         | 84.1                       | 85.1 | 85.3 | 85.9 | 86.1 | 86.2 | 86.3 | 86.4 | 86.4 | 86.5 | 86.5 | 86.5  | 86.5 | 86.5   | 86.6 | 86.7  |
| ≥ 9000          | 84.4                       | 85.4 | 85.6 | 86.1 | 86.5 | 86.5 | 86.6 | 86.7 | 86.7 | 86.8 | 86.8 | 86.8  | 86.8 | 86.9   | 86.9 | 87.1  |
| ≥ 8000          | 84.9                       | 85.9 | 86.1 | 86.6 | 87.0 | 87.0 | 87.1 | 87.2 | 87.2 | 87.3 | 87.3 | 87.3  | 87.3 | 87.4   | 87.4 | 87.6  |
| ≥ 7000          | 85.4                       | 86.4 | 86.6 | 87.2 | 87.5 | 87.5 | 87.6 | 87.7 | 87.7 | 87.8 | 87.8 | 87.8  | 87.8 | 87.9   | 87.9 | 88.1  |
| ≥ 6000          | 85.8                       | 86.8 | 87.0 | 87.3 | 87.6 | 87.9 | 88.0 | 88.1 | 88.1 | 88.2 | 88.2 | 88.2  | 88.3 | 88.3   | 88.3 | 88.4  |
| ≥ 5000          | 86.4                       | 87.5 | 87.7 | 88.2 | 88.5 | 88.6 | 88.7 | 88.8 | 88.8 | 88.9 | 88.9 | 88.9  | 89.0 | 89.0   | 89.0 | 89.1  |
| ≥ 4500          | 86.9                       | 88.2 | 88.4 | 89.0 | 89.3 | 89.3 | 89.4 | 89.5 | 89.5 | 89.6 | 89.6 | 89.6  | 89.7 | 89.7   | 89.7 | 89.9  |
| ≥ 4000          | 87.2                       | 88.5 | 88.7 | 89.3 | 89.6 | 89.6 | 89.8 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0  | 90.1 | 90.1   | 90.2 | 90.2  |
| ≥ 3500          | 87.4                       | 88.7 | 88.9 | 89.5 | 89.9 | 90.0 | 90.1 | 90.2 | 90.2 | 90.3 | 90.3 | 90.3  | 90.4 | 90.4   | 90.5 | 90.6  |
| ≥ 3000          | 87.5                       | 89.0 | 89.3 | 89.9 | 90.3 | 90.4 | 90.5 | 90.6 | 90.6 | 90.8 | 90.8 | 90.8  | 90.9 | 90.9   | 91.0 | 91.0  |
| ≥ 2500          | 87.9                       | 89.4 | 89.7 | 90.4 | 90.8 | 90.9 | 91.0 | 91.1 | 91.1 | 91.2 | 91.2 | 91.3  | 91.3 | 91.3   | 91.4 | 91.5  |
| ≥ 2000          | 88.5                       | 90.0 | 90.5 | 91.4 | 91.8 | 91.9 | 92.1 | 92.2 | 92.2 | 92.4 | 92.4 | 92.4  | 92.5 | 92.5   | 92.5 | 92.7  |
| ≥ 1800          | 88.7                       | 90.1 | 90.7 | 91.5 | 92.0 | 92.1 | 92.2 | 92.4 | 92.4 | 92.6 | 92.6 | 92.6  | 92.6 | 92.7   | 92.7 | 92.8  |
| ≥ 1500          | 88.8                       | 90.5 | 91.2 | 92.2 | 92.7 | 92.9 | 93.7 | 93.3 | 93.3 | 93.5 | 93.5 | 93.5  | 93.6 | 93.6   | 93.7 | 93.8  |
| ≥ 1200          | 89.0                       | 90.9 | 91.6 | 92.6 | 93.3 | 93.4 | 93.9 | 94.1 | 94.1 | 94.4 | 94.4 | 94.4  | 94.4 | 94.5   | 94.6 | 94.7  |
| ≥ 1000          | 89.3                       | 91.1 | 91.9 | 92.9 | 93.6 | 93.7 | 94.5 | 94.7 | 94.7 | 95.0 | 95.1 | 95.1  | 95.2 | 95.2   | 95.3 | 95.4  |
| ≥ 900           | 89.5                       | 91.4 | 92.1 | 93.2 | 93.9 | 94.1 | 94.9 | 95.1 | 95.1 | 95.5 | 95.6 | 95.6  | 95.7 | 95.7   | 95.8 | 95.9  |
| ≥ 800           | 89.6                       | 91.5 | 92.3 | 93.4 | 94.2 | 94.4 | 95.3 | 95.5 | 95.5 | 96.1 | 96.3 | 96.3  | 96.4 | 96.4   | 96.5 | 96.6  |
| ≥ 700           | 89.7                       | 91.6 | 92.4 | 93.7 | 94.5 | 94.6 | 95.6 | 95.8 | 95.8 | 96.5 | 96.8 | 96.8  | 97.0 | 97.0   | 97.0 | 97.1  |
| ≥ 600           | 89.8                       | 91.8 | 92.6 | 93.9 | 94.7 | 94.9 | 95.9 | 96.1 | 96.2 | 96.9 | 97.2 | 97.2  | 97.3 | 97.3   | 97.5 | 97.6  |
| ≥ 500           | 89.9                       | 91.9 | 92.8 | 94.1 | 95.0 | 95.1 | 96.2 | 96.5 | 96.6 | 97.3 | 97.6 | 97.7  | 98.1 | 98.1   | 98.2 | 98.2  |
| ≥ 400           | 89.9                       | 91.9 | 92.8 | 94.1 | 95.1 | 95.3 | 96.3 | 96.8 | 96.8 | 97.6 | 97.9 | 97.9  | 98.3 | 98.3   | 98.5 | 98.6  |
| ≥ 300           | 89.9                       | 91.9 | 92.8 | 94.2 | 95.2 | 95.4 | 96.5 | 97.0 | 97.0 | 97.8 | 98.2 | 98.2  | 98.7 | 98.7   | 98.9 | 99.2  |
| ≥ 200           | 89.9                       | 91.9 | 92.8 | 94.2 | 95.2 | 95.5 | 96.5 | 97.1 | 97.1 | 97.9 | 98.3 | 98.4  | 98.8 | 98.9   | 99.3 | 99.5  |
| ≥ 100           | 89.9                       | 91.9 | 92.8 | 94.2 | 95.2 | 95.5 | 96.5 | 97.1 | 97.2 | 98.0 | 98.5 | 98.5  | 99.0 | 99.2   | 99.5 | 99.8  |
| ≥ 0             | 89.9                       | 91.9 | 92.8 | 94.2 | 95.2 | 95.5 | 96.5 | 97.1 | 97.2 | 98.0 | 98.5 | 98.5  | 99.0 | 99.2   | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS

2164

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037 CULDEW SPRINGS GILLO-PETERSON, FJ

93-56

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

59.0-11.0  
HOURS PER DAY

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |       |       |      |       |        |      |
|-------------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|-------|-------|------|-------|--------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0  |
| NO CEILING        | 50.8                     | 51.0 | 51.1 | 51.1 | 51.2 | 51.2  | 51.3 | 51.3  | 51.3  | 51.3 | 51.3  | 51.3  | 51.3 | 51.3  | 51.3   | 51.3 |
| ≥ 20000           | 71.4                     | 71.7 | 71.9 | 72.1 | 72.3 | 72.3  | 72.5 | 72.6  | 72.6  | 72.6 | 72.6  | 72.6  | 72.6 | 72.6  | 72.6   | 72.6 |
| ≥ 18000           | 72.8                     | 73.2 | 73.3 | 73.5 | 73.7 | 73.8  | 73.9 | 74.0  | 74.0  | 74.3 | 74.3  | 74.3  | 74.3 | 74.3  | 74.3   | 74.3 |
| ≥ 16000           | 74.8                     | 75.2 | 75.4 | 75.5 | 75.6 | 75.8  | 75.9 | 76.1  | 76.1  | 76.3 | 76.3  | 76.3  | 76.3 | 76.3  | 76.3   | 76.3 |
| ≥ 14000           | 79.0                     | 79.4 | 79.7 | 79.8 | 80.1 | 80.1  | 80.3 | 80.4  | 80.4  | 80.6 | 80.6  | 80.6  | 80.6 | 80.6  | 80.6   | 80.6 |
| ≥ 12000           | 83.0                     | 83.6 | 83.9 | 84.1 | 84.3 | 84.4  | 84.6 | 84.7  | 84.7  | 84.9 | 84.9  | 84.9  | 84.9 | 84.9  | 84.9   | 84.9 |
| ≥ 10000           | 84.7                     | 85.4 | 85.7 | 86.0 | 86.3 | 86.3  | 86.5 | 86.6  | 86.6  | 86.8 | 86.8  | 86.8  | 86.8 | 86.8  | 86.8   | 86.8 |
| ≥ 9000            | 85.5                     | 86.2 | 86.5 | 86.8 | 87.1 | 87.1  | 87.3 | 87.4  | 87.4  | 87.6 | 87.6  | 87.6  | 87.6 | 87.6  | 87.6   | 87.6 |
| ≥ 8000            | 85.7                     | 86.4 | 86.7 | 87.0 | 87.3 | 87.3  | 87.5 | 87.6  | 87.6  | 87.8 | 87.8  | 87.8  | 87.8 | 87.8  | 87.8   | 87.8 |
| ≥ 7000            | 86.1                     | 86.8 | 87.2 | 87.4 | 87.7 | 87.8  | 87.9 | 88.0  | 88.0  | 88.2 | 88.2  | 88.2  | 88.2 | 88.2  | 88.2   | 88.2 |
| ≥ 6000            | 86.4                     | 87.2 | 87.5 | 87.8 | 88.0 | 88.1  | 88.3 | 88.4  | 88.4  | 88.6 | 88.6  | 88.6  | 88.6 | 88.6  | 88.6   | 88.6 |
| ≥ 5000            | 87.0                     | 87.8 | 88.1 | 88.4 | 88.6 | 88.7  | 88.9 | 89.0  | 89.0  | 89.2 | 89.2  | 89.2  | 89.2 | 89.2  | 89.2   | 89.2 |
| ≥ 4500            | 87.4                     | 88.2 | 88.5 | 88.8 | 89.1 | 89.1  | 89.3 | 89.4  | 89.4  | 89.7 | 89.7  | 89.7  | 89.7 | 89.7  | 89.7   | 89.7 |
| ≥ 4000            | 88.0                     | 88.8 | 89.1 | 89.4 | 89.7 | 89.7  | 89.9 | 90.0  | 90.0  | 90.3 | 90.3  | 90.3  | 90.3 | 90.3  | 90.3   | 90.3 |
| ≥ 3500            | 88.3                     | 89.1 | 89.5 | 89.8 | 90.2 | 90.3  | 90.4 | 90.5  | 90.5  | 90.8 | 90.8  | 90.8  | 90.8 | 90.8  | 90.8   | 90.8 |
| ≥ 3000            | 88.5                     | 89.3 | 89.7 | 90.1 | 90.4 | 90.5  | 90.7 | 90.8  | 90.8  | 91.0 | 91.0  | 91.0  | 91.0 | 91.0  | 91.0   | 91.0 |
| ≥ 2500            | 88.7                     | 89.7 | 90.1 | 90.4 | 90.8 | 90.9  | 91.1 | 91.3  | 91.3  | 91.5 | 91.5  | 91.5  | 91.5 | 91.5  | 91.5   | 91.5 |
| ≥ 2000            | 89.4                     | 90.4 | 90.9 | 91.3 | 91.6 | 91.7  | 92.0 | 92.3  | 92.3  | 92.6 | 92.6  | 92.6  | 92.6 | 92.6  | 92.6   | 92.6 |
| ≥ 1800            | 89.6                     | 90.7 | 91.2 | 91.7 | 92.2 | 92.3  | 92.7 | 93.0  | 93.0  | 93.3 | 93.3  | 93.3  | 93.3 | 93.3  | 93.3   | 93.3 |
| ≥ 1500            | 89.8                     | 91.1 | 91.6 | 92.3 | 92.9 | 93.0  | 93.3 | 93.7  | 93.8  | 94.0 | 94.0  | 94.0  | 94.0 | 94.0  | 94.0   | 94.0 |
| ≥ 1200            | 90.1                     | 91.5 | 92.1 | 92.8 | 93.5 | 93.5  | 93.9 | 94.4  | 94.5  | 94.8 | 94.8  | 94.8  | 94.8 | 94.8  | 94.8   | 94.8 |
| ≥ 1000            | 90.2                     | 91.8 | 92.3 | 93.1 | 93.9 | 93.9  | 94.5 | 95.0  | 95.1  | 95.7 | 95.7  | 95.7  | 95.7 | 95.7  | 95.7   | 95.7 |
| ≥ 900             | 90.3                     | 91.9 | 92.4 | 93.3 | 94.2 | 94.2  | 95.0 | 95.4  | 95.5  | 96.2 | 96.2  | 96.2  | 96.2 | 96.2  | 96.2   | 96.2 |
| ≥ 800             | 90.3                     | 92.0 | 92.6 | 93.6 | 94.5 | 94.5  | 95.4 | 95.8  | 95.9  | 96.6 | 96.6  | 96.6  | 96.6 | 96.6  | 96.6   | 96.6 |
| ≥ 700             | 90.3                     | 92.0 | 92.6 | 93.6 | 94.5 | 94.5  | 95.5 | 96.0  | 96.1  | 96.8 | 96.8  | 96.8  | 96.8 | 96.8  | 96.8   | 96.8 |
| ≥ 600             | 90.4                     | 92.1 | 92.7 | 93.9 | 94.9 | 95.1  | 95.9 | 96.4  | 96.5  | 97.5 | 97.5  | 97.5  | 97.5 | 97.5  | 97.5   | 97.5 |
| ≥ 500             | 90.4                     | 92.1 | 92.7 | 94.0 | 95.1 | 95.2  | 96.2 | 96.5  | 96.9  | 97.9 | 97.9  | 97.9  | 97.9 | 97.9  | 97.9   | 97.9 |
| ≥ 400             | 90.5                     | 92.2 | 92.8 | 94.2 | 95.2 | 95.4  | 96.4 | 97.0  | 97.1  | 98.2 | 98.2  | 98.2  | 98.2 | 98.2  | 98.2   | 98.2 |
| ≥ 300             | 90.5                     | 92.2 | 92.9 | 94.2 | 95.3 | 95.6  | 96.5 | 97.2  | 97.3  | 98.4 | 98.4  | 98.4  | 98.4 | 98.4  | 98.4   | 98.4 |
| ≥ 200             | 90.5                     | 92.2 | 92.9 | 94.2 | 95.3 | 95.6  | 96.5 | 97.2  | 97.3  | 98.4 | 98.4  | 98.4  | 98.4 | 98.4  | 98.4   | 98.4 |
| ≥ 100             | 90.5                     | 92.2 | 92.9 | 94.2 | 95.3 | 95.6  | 96.5 | 97.2  | 97.3  | 98.4 | 98.4  | 98.4  | 98.4 | 98.4  | 98.4   | 98.4 |
| 0                 | 90.5                     | 92.2 | 92.9 | 94.2 | 95.3 | 95.6  | 96.5 | 97.2  | 97.3  | 98.4 | 98.4  | 98.4  | 98.4 | 98.4  | 98.4   | 98.4 |

TOTAL NUMBER OF OBSERVATIONS 2165

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28611

# CEILING VERSUS VISIBILITY

STATION COLLEGE SPRINGS COLDWATERSON FM 43-06

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17-0-1-00  
HOURS (L.S.T.)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING      | 50.5                       | 51.0 | 51.2 | 51.4 | 51.5 | 51.5 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6  | 51.6 | 51.6  | 51.6 | 51.6 |
| ≥ 20000         | 71.5                       | 72.9 | 72.5 | 73.1 | 73.3 | 73.4 | 73.4 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5  | 73.5 | 73.5  | 73.5 | 73.5 |
| ≥ 18000         | 73.2                       | 73.9 | 74.2 | 74.6 | 74.7 | 74.8 | 74.9 | 74.9 | 74.9 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0 | 75.0 |
| ≥ 16000         | 75.4                       | 76.1 | 76.5 | 76.9 | 77.1 | 77.1 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3  | 77.3 | 77.3  | 77.3 | 77.3 |
| ≥ 14050         | 79.0                       | 79.9 | 80.3 | 80.6 | 81.0 | 81.1 | 81.7 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3  | 81.3 | 81.3  | 81.3 | 81.3 |
| ≥ 12000         | 83.1                       | 84.1 | 84.5 | 84.8 | 85.2 | 85.3 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  | 85.5 | 85.5  | 85.5 | 85.5 |
| ≥ 10000         | 86.3                       | 86.3 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6 | 86.6  | 86.6 | 86.6 |
| ≥ 9000          | 86.5                       | 86.4 | 86.5 | 86.2 | 86.5 | 86.6 | 86.6 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9  | 86.9 | 86.9  | 86.9 | 86.9 |
| ≥ 8000          | 86.9                       | 86.9 | 86.8 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 7000          | 86.5                       | 86.5 | 86.8 | 87.2 | 87.6 | 87.7 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0  | 88.0 | 88.0 |
| ≥ 6000          | 86.5                       | 87.6 | 88.0 | 88.4 | 88.8 | 88.9 | 89.2 | 89.2 | 89.2 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3  | 89.3 | 89.3 |
| ≥ 5000          | 87.6                       | 88.8 | 89.7 | 89.8 | 90.0 | 90.1 | 90.4 | 90.4 | 90.4 | 90.5 | 90.5 | 90.5  | 90.5 | 90.5  | 90.5 | 90.5 |
| ≥ 4500          | 87.7                       | 89.0 | 89.4 | 89.8 | 90.2 | 90.3 | 90.6 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7  | 90.7 | 90.7 |
| ≥ 4000          | 86.1                       | 89.4 | 89.8 | 90.2 | 90.6 | 90.7 | 91.0 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1  | 91.1 | 91.1 |
| ≥ 3500          | 88.3                       | 89.8 | 90.3 | 90.7 | 91.2 | 91.3 | 91.6 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  | 91.7 | 91.7  | 91.7 | 91.7 |
| ≥ 3000          | 88.6                       | 90.1 | 90.6 | 91.2 | 91.7 | 91.8 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2 | 92.2  | 92.2 | 92.2 |
| ≥ 2500          | 89.1                       | 90.7 | 91.3 | 91.8 | 92.3 | 92.3 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9 | 92.9 |
| ≥ 2000          | 89.6                       | 91.3 | 91.9 | 92.5 | 93.1 | 93.3 | 93.6 | 93.7 | 93.7 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8  | 93.8 | 93.8 |
| ≥ 1800          | 89.7                       | 91.0 | 92.2 | 92.8 | 93.4 | 93.5 | 93.9 | 94.0 | 94.0 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1 |
| ≥ 1500          | 89.8                       | 91.7 | 92.5 | 93.0 | 93.6 | 93.9 | 94.4 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7  | 94.7 | 94.7 |
| ≥ 1200          | 90.1                       | 92.2 | 92.9 | 93.7 | 94.3 | 94.7 | 95.5 | 95.6 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8  | 95.8 | 95.8 |
| ≥ 1000          | 90.3                       | 92.4 | 93.2 | 94.1 | 95.1 | 95.5 | 96.4 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1  | 97.1 | 97.1 |
| ≥ 900           | 90.3                       | 92.5 | 93.2 | 94.2 | 95.3 | 95.8 | 96.7 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3  | 97.3 | 97.3 |
| ≥ 800           | 90.4                       | 92.6 | 93.5 | 94.5 | 95.6 | 96.0 | 96.9 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5  | 97.5 | 97.5 |
| ≥ 700           | 90.5                       | 92.7 | 93.5 | 94.6 | 95.8 | 96.2 | 97.1 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0  | 98.0 | 98.0 |
| ≥ 600           | 90.5                       | 92.8 | 93.6 | 94.7 | 96.0 | 96.5 | 97.4 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.2  | 98.2 | 98.2 |
| ≥ 500           | 90.4                       | 92.8 | 93.7 | 94.7 | 96.0 | 96.5 | 97.5 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3  | 98.3 | 98.3 |
| ≥ 400           | 90.4                       | 92.8 | 93.7 | 94.8 | 96.1 | 96.6 | 97.6 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3  | 98.3 | 98.3 |
| ≥ 300           | 90.5                       | 92.8 | 93.8 | 94.8 | 96.2 | 96.7 | 97.8 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 200           | 90.4                       | 92.8 | 93.8 | 94.8 | 96.3 | 96.8 | 97.8 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 100           | 90.4                       | 92.8 | 93.8 | 94.8 | 96.3 | 96.8 | 97.8 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 0             | 90.4                       | 92.8 | 93.8 | 94.8 | 96.3 | 96.8 | 97.8 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7 |

TOTAL NUMBER OF OBSERVATIONS 2170

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93787  
STATION

COLORADO SPRINGS COLE-PETERSEN 10  
STATION NAME

43-46  
YEARS

36  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS U.S.T.

| CEILING<br>(FEET) | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ .5 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .15 | ≥ .1 | ≥ 0  |
| NO CEILING        | 52.1                       | 52.6 | 52.7 | 52.9 | 53.0 | 53.0  | 53.0 | 53.0  | 53.0  | 53.0 | 53.0 | 53.0  | 53.0 | 53.0  | 53.0 | 53.0 |
| ≥ 20000           | 71.3                       | 71.2 | 72.4 | 72.7 | 72.8 | 72.8  | 72.8 | 72.9  | 72.9  | 72.9 | 73.0 | 73.0  | 73.0 | 73.0  | 73.0 | 73.0 |
| ≥ 18000           | 72.7                       | 73.4 | 74.0 | 74.3 | 74.4 | 74.5  | 74.5 | 74.5  | 74.5  | 74.6 | 74.6 | 74.6  | 74.6 | 74.6  | 74.6 | 74.6 |
| ≥ 16000           | 73.5                       | 73.5 | 74.0 | 74.9 | 76.9 | 77.0  | 77.0 | 77.1  | 77.1  | 77.1 | 77.2 | 77.2  | 77.2 | 77.2  | 77.2 | 77.2 |
| ≥ 14000           | 78.3                       | 79.8 | 80.0 | 80.3 | 80.3 | 80.4  | 80.4 | 80.5  | 80.5  | 80.5 | 80.5 | 80.5  | 80.5 | 80.5  | 80.5 | 80.5 |
| ≥ 12000           | 82.3                       | 83.3 | 83.7 | 84.8 | 85.0 | 85.1  | 85.1 | 85.2  | 85.2  | 85.2 | 85.2 | 85.2  | 85.2 | 85.2  | 85.2 | 85.2 |
| ≥ 10000           | 84.2                       | 85.9 | 86.1 | 86.4 | 86.4 | 86.5  | 86.5 | 86.5  | 86.5  | 86.5 | 86.5 | 86.5  | 86.5 | 86.5  | 86.5 | 86.5 |
| ≥ 9000            | 85.2                       | 86.4 | 86.6 | 86.7 | 86.9 | 87.0  | 87.0 | 87.1  | 87.1  | 87.2 | 87.2 | 87.2  | 87.2 | 87.2  | 87.2 | 87.2 |
| ≥ 8000            | 89.2                       | 87.0 | 87.3 | 87.8 | 87.7 | 87.8  | 87.9 | 87.9  | 87.9  | 88.0 | 88.1 | 88.1  | 88.1 | 88.1  | 88.1 | 88.1 |
| ≥ 7000            | 86.3                       | 87.7 | 88.1 | 88.4 | 88.5 | 88.6  | 88.7 | 88.7  | 88.7  | 88.8 | 88.8 | 88.8  | 88.8 | 88.8  | 88.8 | 88.8 |
| ≥ 6000            | 87.2                       | 89.1 | 89.3 | 89.6 | 90.0 | 90.1  | 90.2 | 90.2  | 90.2  | 90.3 | 90.3 | 90.3  | 90.3 | 90.3  | 90.3 | 90.3 |
| ≥ 5000            | 88.3                       | 89.8 | 90.2 | 90.3 | 90.8 | 90.9  | 91.0 | 91.0  | 91.0  | 91.1 | 91.1 | 91.1  | 91.1 | 91.1  | 91.1 | 91.1 |
| ≥ 4500            | 88.6                       | 90.2 | 90.6 | 91.0 | 91.2 | 91.3  | 91.5 | 91.5  | 91.5  | 91.6 | 91.7 | 91.7  | 91.7 | 91.7  | 91.7 | 91.7 |
| ≥ 4000            | 89.1                       | 90.5 | 91.0 | 91.3 | 91.6 | 91.7  | 91.8 | 91.8  | 91.8  | 91.9 | 92.0 | 92.0  | 92.0 | 92.0  | 92.0 | 92.0 |
| ≥ 3500            | 89.2                       | 90.7 | 91.1 | 91.3 | 91.7 | 91.8  | 92.0 | 92.1  | 92.1  | 92.2 | 92.2 | 92.2  | 92.2 | 92.2  | 92.2 | 92.2 |
| ≥ 3000            | 89.3                       | 91.1 | 91.3 | 91.7 | 92.4 | 92.5  | 92.7 | 92.8  | 92.8  | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9 | 92.9 |
| ≥ 2500            | 89.8                       | 91.4 | 92.0 | 92.4 | 92.9 | 93.1  | 93.2 | 93.3  | 93.3  | 93.4 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 | 93.5 |
| ≥ 2000            | 90.4                       | 92.0 | 92.7 | 93.3 | 93.8 | 93.9  | 94.2 | 94.3  | 94.3  | 94.5 | 94.5 | 94.5  | 94.5 | 94.5  | 94.5 | 94.5 |
| ≥ 1800            | 90.5                       | 92.2 | 92.9 | 93.5 | 94.1 | 94.2  | 94.3 | 94.5  | 94.5  | 94.7 | 94.8 | 94.8  | 94.8 | 94.8  | 94.8 | 94.8 |
| ≥ 1500            | 90.6                       | 92.4 | 93.1 | 93.7 | 94.6 | 94.6  | 94.8 | 94.9  | 95.0  | 95.1 | 95.2 | 95.2  | 95.2 | 95.2  | 95.2 | 95.2 |
| ≥ 1250            | 90.7                       | 92.6 | 93.4 | 94.1 | 94.8 | 95.0  | 95.4 | 95.7  | 95.7  | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9 |
| ≥ 1000            | 90.9                       | 92.9 | 93.7 | 94.4 | 95.2 | 95.3  | 96.0 | 96.4  | 96.4  | 96.6 | 96.7 | 96.7  | 96.7 | 96.7  | 96.7 | 96.7 |
| ≥ 900             | 93.2                       | 93.0 | 93.7 | 94.6 | 95.3 | 95.4  | 96.1 | 96.6  | 96.6  | 96.9 | 97.1 | 97.2  | 97.2 | 97.3  | 97.3 | 97.3 |
| ≥ 800             | 91.0                       | 93.1 | 93.9 | 94.6 | 95.3 | 95.7  | 96.4 | 97.0  | 97.0  | 97.4 | 97.6 | 97.7  | 97.8 | 97.9  | 97.9 | 97.9 |
| ≥ 700             | 91.0                       | 93.1 | 94.0 | 94.8 | 95.0 | 95.8  | 96.3 | 97.1  | 97.1  | 97.7 | 97.7 | 97.7  | 97.7 | 97.7  | 97.7 | 97.7 |
| ≥ 600             | 91.0                       | 93.1 | 94.0 | 94.8 | 95.0 | 95.8  | 96.3 | 97.1  | 97.1  | 97.7 | 97.7 | 97.7  | 97.7 | 97.7  | 97.7 | 97.7 |
| ≥ 500             | 91.0                       | 93.2 | 94.1 | 95.0 | 96.0 | 96.2  | 97.0 | 97.6  | 97.6  | 98.4 | 98.8 | 98.8  | 98.8 | 98.8  | 98.8 | 98.8 |
| ≥ 400             | 91.0                       | 93.2 | 94.1 | 95.0 | 96.0 | 96.2  | 97.0 | 97.7  | 97.7  | 98.6 | 99.0 | 99.0  | 99.0 | 99.0  | 99.0 | 99.0 |
| ≥ 300             | 91.1                       | 93.2 | 94.2 | 95.2 | 96.2 | 96.4  | 97.2 | 97.8  | 97.8  | 98.7 | 99.1 | 99.2  | 99.2 | 99.2  | 99.2 | 99.2 |
| ≥ 200             | 91.1                       | 93.2 | 94.3 | 95.2 | 96.2 | 96.4  | 97.2 | 97.8  | 97.8  | 98.8 | 99.2 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 100             | 91.1                       | 93.2 | 94.3 | 95.2 | 96.2 | 96.4  | 97.2 | 97.8  | 97.8  | 98.8 | 99.2 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 0               | 91.1                       | 93.2 | 94.3 | 95.2 | 96.2 | 96.4  | 97.2 | 97.8  | 97.8  | 98.8 | 99.2 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS 2165

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28811

# CEILING VERSUS VISIBILITY

93057 STATION CILG SPRINGS CILG-REFRSG-80 YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10-2-70  
HOURS (L.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |       |      |       |       |      |       |      |
|-----------------------|----------------------------|------|------|------|------|-------|------|-------|-------|-------|------|-------|-------|------|-------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ 0  |
| NO CEILING<br>≥ 20000 | 01.5                       | 12.1 | 02.4 | 02.4 | 02.3 | 04.5  | 02.5 | 02.5  | 02.5  | 02.5  | 02.5 | 02.5  | 02.5  | 02.5 | 02.5  | 02.5 |
| ≥ 18000               | 74.5                       | 75.7 | 75.7 | 75.7 | 75.8 | 75.8  | 75.8 | 75.8  | 75.8  | 75.8  | 75.8 | 75.8  | 75.8  | 75.8 | 75.8  | 75.8 |
| ≥ 16000               | 75.0                       | 76.3 | 76.8 | 76.8 | 76.9 | 76.9  | 76.9 | 76.9  | 76.9  | 76.9  | 76.9 | 76.9  | 76.9  | 76.9 | 76.9  | 76.9 |
| ≥ 14000               | 77.3                       | 78.0 | 78.5 | 78.5 | 78.6 | 78.6  | 78.6 | 78.6  | 78.6  | 78.6  | 78.6 | 78.6  | 78.6  | 78.6 | 78.6  | 78.6 |
| ≥ 12000               | 79.1                       | 79.9 | 80.4 | 80.5 | 80.5 | 80.5  | 80.5 | 80.5  | 80.5  | 80.5  | 80.5 | 80.5  | 80.5  | 80.5 | 80.5  | 80.5 |
| ≥ 10000               | 81.0                       | 81.7 | 82.2 | 82.3 | 82.4 | 82.4  | 82.4 | 82.4  | 82.4  | 82.4  | 82.4 | 82.4  | 82.4  | 82.4 | 82.4  | 82.4 |
| ≥ 8000                | 82.7                       | 83.0 | 83.8 | 83.9 | 84.0 | 84.0  | 84.0 | 84.0  | 84.0  | 84.0  | 84.0 | 84.0  | 84.0  | 84.0 | 84.0  | 84.0 |
| ≥ 7000                | 83.2                       | 84.2 | 84.7 | 84.8 | 84.9 | 84.9  | 84.9 | 84.9  | 84.9  | 84.9  | 84.9 | 84.9  | 84.9  | 84.9 | 84.9  | 84.9 |
| ≥ 6000                | 83.6                       | 84.6 | 85.1 | 85.2 | 85.3 | 85.3  | 85.3 | 85.3  | 85.3  | 85.3  | 85.3 | 85.3  | 85.3  | 85.3 | 85.3  | 85.3 |
| ≥ 5000                | 84.9                       | 85.9 | 86.4 | 86.5 | 86.6 | 86.6  | 86.6 | 86.6  | 86.6  | 86.6  | 86.6 | 86.6  | 86.6  | 86.6 | 86.6  | 86.6 |
| ≥ 4500                | 85.5                       | 87.0 | 87.5 | 87.6 | 87.7 | 87.7  | 87.7 | 87.7  | 87.7  | 87.7  | 87.7 | 87.7  | 87.7  | 87.7 | 87.7  | 87.7 |
| ≥ 4000                | 85.9                       | 87.2 | 87.7 | 87.8 | 87.9 | 87.9  | 87.9 | 87.9  | 87.9  | 87.9  | 87.9 | 87.9  | 87.9  | 87.9 | 87.9  | 87.9 |
| ≥ 3500                | 86.4                       | 87.9 | 88.4 | 88.5 | 88.6 | 88.6  | 88.6 | 88.6  | 88.6  | 88.6  | 88.6 | 88.6  | 88.6  | 88.6 | 88.6  | 88.6 |
| ≥ 3000                | 86.9                       | 88.0 | 89.1 | 89.2 | 89.3 | 89.3  | 89.3 | 89.3  | 89.3  | 89.3  | 89.3 | 89.3  | 89.3  | 89.3 | 89.3  | 89.3 |
| ≥ 2500                | 87.3                       | 89.0 | 89.6 | 89.8 | 89.9 | 89.9  | 89.9 | 89.9  | 89.9  | 89.9  | 89.9 | 89.9  | 89.9  | 89.9 | 89.9  | 89.9 |
| ≥ 2000                | 88.3                       | 90.3 | 91.0 | 91.2 | 91.3 | 91.3  | 91.3 | 91.3  | 91.3  | 91.3  | 91.3 | 91.3  | 91.3  | 91.3 | 91.3  | 91.3 |
| ≥ 1800                | 88.8                       | 91.1 | 91.9 | 92.4 | 92.6 | 92.6  | 92.6 | 92.6  | 92.6  | 92.6  | 92.6 | 92.6  | 92.6  | 92.6 | 92.6  | 92.6 |
| ≥ 1600                | 89.0                       | 91.4 | 92.2 | 92.9 | 93.1 | 93.1  | 93.1 | 93.1  | 93.1  | 93.1  | 93.1 | 93.1  | 93.1  | 93.1 | 93.1  | 93.1 |
| ≥ 1500                | 89.1                       | 91.6 | 92.5 | 93.3 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5  | 93.5  | 93.5 | 93.5  | 93.5  | 93.5 | 93.5  | 93.5 |
| ≥ 1200                | 89.3                       | 91.9 | 93.0 | 93.8 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1  | 94.1  | 94.1 | 94.1  | 94.1  | 94.1 | 94.1  | 94.1 |
| ≥ 1000                | 89.4                       | 92.0 | 93.1 | 94.0 | 94.2 | 94.2  | 94.2 | 94.2  | 94.2  | 94.2  | 94.2 | 94.2  | 94.2  | 94.2 | 94.2  | 94.2 |
| ≥ 900                 | 89.5                       | 92.2 | 93.3 | 94.2 | 94.5 | 94.5  | 94.5 | 94.5  | 94.5  | 94.5  | 94.5 | 94.5  | 94.5  | 94.5 | 94.5  | 94.5 |
| ≥ 800                 | 89.6                       | 92.3 | 93.6 | 94.6 | 94.8 | 94.8  | 94.8 | 94.8  | 94.8  | 94.8  | 94.8 | 94.8  | 94.8  | 94.8 | 94.8  | 94.8 |
| ≥ 700                 | 89.8                       | 92.4 | 93.7 | 94.7 | 95.0 | 95.0  | 95.0 | 95.0  | 95.0  | 95.0  | 95.0 | 95.0  | 95.0  | 95.0 | 95.0  | 95.0 |
| ≥ 600                 | 89.9                       | 92.6 | 94.0 | 95.1 | 95.4 | 95.4  | 95.4 | 95.4  | 95.4  | 95.4  | 95.4 | 95.4  | 95.4  | 95.4 | 95.4  | 95.4 |
| ≥ 500                 | 89.8                       | 92.8 | 94.2 | 95.3 | 95.6 | 95.6  | 95.6 | 95.6  | 95.6  | 95.6  | 95.6 | 95.6  | 95.6  | 95.6 | 95.6  | 95.6 |
| ≥ 400                 | 89.9                       | 92.8 | 94.2 | 95.3 | 95.7 | 95.7  | 95.7 | 95.7  | 95.7  | 95.7  | 95.7 | 95.7  | 95.7  | 95.7 | 95.7  | 95.7 |
| ≥ 300                 | 89.8                       | 92.8 | 94.2 | 95.3 | 95.7 | 95.7  | 95.7 | 95.7  | 95.7  | 95.7  | 95.7 | 95.7  | 95.7  | 95.7 | 95.7  | 95.7 |
| ≥ 200                 | 89.8                       | 92.9 | 94.4 | 95.5 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9  | 95.9  | 95.9 | 95.9  | 95.9  | 95.9 | 95.9  | 95.9 |
| ≥ 100                 | 89.8                       | 92.9 | 94.4 | 95.5 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9  | 95.9  | 95.9 | 95.9  | 95.9  | 95.9 | 95.9  | 95.9 |
| ≥ 0                   | 89.8                       | 92.9 | 94.4 | 95.5 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9  | 95.9  | 95.9 | 95.9  | 95.9  | 95.9 | 95.9  | 95.9 |

TOTAL NUMBER OF OBSERVATIONS 2109

DATA PROCESSING DIVISION  
ETAC, 1504  
ADRIANVILLE, N. C. 27601

# CEILING VERSUS VISIBILITY

STATION 03017 COLONEL BU LKINGS COLLEGE-RETERSON, NC YEARS 43-01 MONTH 1-

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7301-2300  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING      | 55.0                       | 55.9 | 60.0 | 65.1 | 66.1 | 66.2 | 66.7 | 66.2 | 66.2 | 66.3 | 66.3 | 66.3  | 66.4 | 66.4  | 66.4 | 66.4 |
| ≥ 20000         | 74.4                       | 75.4 | 75.6 | 75.3 | 75.9 | 75.2 | 75.0 | 75.0 | 75.0 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 | 75.1 |
| ≥ 18000         | 75.4                       | 76.5 | 76.6 | 76.8 | 76.9 | 77.0 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1  | 77.1 | 77.1  | 77.1 | 77.1 |
| ≥ 16000         | 77.0                       | 76.9 | 76.7 | 76.4 | 76.5 | 76.5 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7  | 76.7 | 76.7  | 76.7 | 76.7 |
| ≥ 14000         | 78.8                       | 78.4 | 80.0 | 80.3 | 80.4 | 80.4 | 80.4 | 80.6 | 80.4 | 80.6 | 80.6 | 80.6  | 80.6 | 80.6  | 80.6 | 80.6 |
| ≥ 12000         | 80.3                       | 81.1 | 81.3 | 81.3 | 81.8 | 81.9 | 82.5 | 82.0 | 82.0 | 82.2 | 82.1 | 82.1  | 82.1 | 82.2  | 82.2 | 82.2 |
| ≥ 10000         | 82.0                       | 83.1 | 83.3 | 83.3 | 83.6 | 83.7 | 83.8 | 83.8 | 83.8 | 83.9 | 83.9 | 83.9  | 83.9 | 83.9  | 83.9 | 83.9 |
| ≥ 9000          | 82.2                       | 83.3 | 83.5 | 83.7 | 83.8 | 83.9 | 84.0 | 84.0 | 84.0 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1  | 84.1 | 84.1 |
| ≥ 8000          | 82.8                       | 84.0 | 84.1 | 84.4 | 84.5 | 84.5 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7  | 84.7 | 84.7  | 84.7 | 84.7 |
| ≥ 7000          | 83.2                       | 84.4 | 84.6 | 84.8 | 84.9 | 84.9 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1 | 85.1  | 85.1 | 85.1 |
| ≥ 6000          | 83.5                       | 85.1 | 85.3 | 85.5 | 85.6 | 85.7 | 85.8 | 85.8 | 85.8 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9  | 85.9 | 85.9 |
| ≥ 5000          | 84.1                       | 85.7 | 85.9 | 86.2 | 86.3 | 86.4 | 86.5 | 86.5 | 86.5 | 86.6 | 86.6 | 86.6  | 86.6 | 86.6  | 86.6 | 86.6 |
| ≥ 4500          | 84.5                       | 85.9 | 86.2 | 86.5 | 86.5 | 86.6 | 86.7 | 86.7 | 86.7 | 86.8 | 86.8 | 86.8  | 86.8 | 86.8  | 86.8 | 86.8 |
| ≥ 4000          | 84.9                       | 86.4 | 86.6 | 86.9 | 87.0 | 87.1 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2  | 87.2 | 87.2  | 87.2 | 87.2 |
| ≥ 3500          | 85.7                       | 87.3 | 87.6 | 87.8 | 87.9 | 88.0 | 88.2 | 88.2 | 88.2 | 88.3 | 88.3 | 88.3  | 88.3 | 88.3  | 88.3 | 88.3 |
| ≥ 3000          | 86.1                       | 87.7 | 88.0 | 88.2 | 88.3 | 88.4 | 88.7 | 88.7 | 88.7 | 88.9 | 88.9 | 88.9  | 88.9 | 88.9  | 88.9 | 88.9 |
| ≥ 2500          | 86.9                       | 88.6 | 89.2 | 89.5 | 89.6 | 89.7 | 90.0 | 90.0 | 90.0 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2  | 90.2 | 90.2 |
| ≥ 2000          | 87.0                       | 90.1 | 90.6 | 91.1 | 91.2 | 91.2 | 91.6 | 91.7 | 91.7 | 92.0 | 92.0 | 92.0  | 92.0 | 92.1  | 92.1 | 92.1 |
| ≥ 1800          | 87.7                       | 90.4 | 90.8 | 91.3 | 91.4 | 91.5 | 91.9 | 92.0 | 92.0 | 92.3 | 92.3 | 92.3  | 92.3 | 92.4  | 92.4 | 92.4 |
| ≥ 1500          | 87.9                       | 90.6 | 91.3 | 92.0 | 92.2 | 92.3 | 92.7 | 92.8 | 92.8 | 93.1 | 93.1 | 93.1  | 93.1 | 93.3  | 93.3 | 93.3 |
| ≥ 1200          | 88.1                       | 91.1 | 91.8 | 92.3 | 92.7 | 92.8 | 93.4 | 93.5 | 93.6 | 94.0 | 94.0 | 94.0  | 94.0 | 94.2  | 94.2 | 94.2 |
| ≥ 1000          | 88.7                       | 91.7 | 92.5 | 93.3 | 93.5 | 93.6 | 94.2 | 94.5 | 94.5 | 95.0 | 95.0 | 95.0  | 95.0 | 95.4  | 95.4 | 95.4 |
| ≥ 900           | 88.8                       | 91.8 | 92.7 | 93.5 | 93.7 | 93.8 | 94.4 | 94.7 | 94.7 | 95.3 | 95.3 | 95.3  | 95.3 | 95.7  | 95.7 | 95.7 |
| ≥ 800           | 88.8                       | 92.0 | 92.9 | 93.7 | 94.0 | 94.1 | 94.8 | 95.0 | 95.0 | 95.8 | 95.8 | 95.8  | 95.8 | 96.2  | 96.2 | 96.2 |
| ≥ 700           | 88.8                       | 92.0 | 92.9 | 93.7 | 94.0 | 94.1 | 94.8 | 95.0 | 95.0 | 95.9 | 95.9 | 95.9  | 95.9 | 96.4  | 96.4 | 96.4 |
| ≥ 600           | 88.8                       | 92.1 | 93.0 | 93.9 | 94.1 | 94.1 | 94.8 | 95.1 | 95.1 | 95.3 | 95.3 | 95.3  | 95.3 | 96.7  | 96.7 | 96.7 |
| ≥ 500           | 88.9                       | 92.2 | 93.1 | 94.1 | 94.4 | 94.5 | 95.3 | 95.6 | 95.6 | 96.0 | 96.0 | 96.0  | 96.0 | 97.0  | 97.0 | 97.0 |
| ≥ 400           | 88.9                       | 92.3 | 93.2 | 94.2 | 94.5 | 94.7 | 95.5 | 95.8 | 95.8 | 96.9 | 96.9 | 96.9  | 96.9 | 97.4  | 97.4 | 97.4 |
| ≥ 300           | 88.9                       | 92.3 | 93.2 | 94.2 | 94.5 | 94.7 | 95.5 | 95.8 | 95.8 | 97.0 | 97.0 | 97.0  | 97.0 | 97.7  | 97.7 | 97.7 |
| ≥ 200           | 88.9                       | 92.3 | 93.3 | 94.4 | 94.7 | 94.9 | 95.8 | 96.2 | 96.2 | 97.3 | 97.3 | 97.3  | 97.3 | 98.0  | 98.0 | 98.0 |
| ≥ 100           | 88.9                       | 92.3 | 93.3 | 94.4 | 94.7 | 94.9 | 95.8 | 96.2 | 96.2 | 97.4 | 97.4 | 97.4  | 97.4 | 98.3  | 98.3 | 98.3 |
| ≥ 0             | 88.9                       | 92.3 | 93.3 | 94.4 | 94.7 | 94.9 | 95.8 | 96.2 | 96.2 | 97.4 | 97.4 | 97.4  | 97.4 | 98.5  | 98.5 | 98.5 |

TOTAL NUMBER OF OBSERVATIONS 2170

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

91037  
STATION

COLORADO SPRINGS COLG-PETERSON  
STATION NAME

43-5  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY OBSERVATIONS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 0.1 | ≥ 0  | ≥ 0  |
| NO CEILING      | 58.9                     | 59.5 | 59.6 | 59.6 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9  | 59.9 | 59.9 |
| ≥ 20000         | 73.5                     | 74.3 | 74.6 | 74.6 | 74.9 | 75.0 | 75.0 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1 |
| ≥ 18000         | 74.9                     | 75.0 | 75.9 | 76.1 | 76.2 | 76.3 | 76.3 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4  | 76.4 | 76.4 |
| ≥ 16000         | 76.9                     | 77.7 | 77.9 | 78.2 | 78.3 | 78.3 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4  | 78.4 | 78.4 |
| ≥ 14000         | 79.7                     | 80.5 | 80.8 | 81.0 | 81.2 | 81.2 | 81.2 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3  | 81.3 | 81.3 |
| ≥ 12000         | 82.5                     | 83.3 | 83.6 | 83.9 | 84.1 | 84.1 | 84.2 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3  | 84.3 | 84.3 |
| ≥ 10000         | 83.9                     | 84.9 | 85.2 | 85.4 | 85.6 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8 |
| ≥ 9000          | 84.2                     | 85.2 | 85.5 | 85.8 | 86.0 | 86.0 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2 | 86.2 |
| ≥ 8000          | 84.7                     | 85.7 | 86.0 | 86.3 | 86.5 | 86.5 | 86.6 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 7000          | 85.1                     | 86.1 | 86.4 | 86.7 | 86.9 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1 |
| ≥ 6000          | 85.8                     | 86.9 | 87.2 | 87.5 | 87.7 | 87.7 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9 | 87.9 |
| ≥ 5000          | 86.5                     | 87.6 | 88.0 | 88.3 | 88.5 | 88.5 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7  | 88.7 | 88.7 |
| ≥ 4500          | 86.7                     | 88.0 | 88.3 | 88.6 | 88.8 | 88.9 | 89.0 | 89.1 | 89.1 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2  | 89.2 | 89.2 |
| ≥ 4000          | 87.2                     | 88.4 | 88.8 | 89.1 | 89.4 | 89.4 | 89.5 | 89.6 | 89.6 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.7 |
| ≥ 3500          | 87.5                     | 88.9 | 89.3 | 89.6 | 89.8 | 89.9 | 90.0 | 90.1 | 90.1 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2 |
| ≥ 3000          | 87.8                     | 89.2 | 89.7 | 90.0 | 90.3 | 90.4 | 90.5 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7 |
| ≥ 2500          | 88.2                     | 89.6 | 90.1 | 90.4 | 90.7 | 91.0 | 91.1 | 91.3 | 91.4 | 91.4 | 91.5 | 91.6 | 91.6 | 91.6  | 91.6 | 91.6 |
| ≥ 2000          | 88.8                     | 90.6 | 91.2 | 91.7 | 92.1 | 92.2 | 92.4 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6 |
| ≥ 1800          | 88.9                     | 90.8 | 91.5 | 92.0 | 92.4 | 92.5 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8 |
| ≥ 1500          | 89.1                     | 91.1 | 91.9 | 92.5 | 93.0 | 93.1 | 93.5 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7 |
| ≥ 1200          | 89.4                     | 91.5 | 92.3 | 93.1 | 93.6 | 93.7 | 94.2 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5 |
| ≥ 1000          | 89.6                     | 91.8 | 92.7 | 93.5 | 94.1 | 94.2 | 94.9 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3 |
| ≥ 900           | 89.7                     | 92.0 | 92.8 | 93.7 | 94.4 | 94.5 | 95.2 | 95.5 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6  | 95.6 | 95.6 |
| ≥ 800           | 89.9                     | 92.1 | 93.0 | 93.9 | 94.6 | 94.8 | 95.5 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0 |
| ≥ 700           | 89.9                     | 92.2 | 93.1 | 94.0 | 94.8 | 94.9 | 95.7 | 96.1 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2  | 96.2 | 96.2 |
| ≥ 600           | 89.9                     | 92.3 | 93.3 | 94.3 | 95.0 | 95.2 | 96.0 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5 |
| ≥ 500           | 89.9                     | 92.4 | 93.4 | 94.4 | 95.2 | 95.4 | 96.2 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8 |
| ≥ 400           | 89.9                     | 92.5 | 93.5 | 94.5 | 95.4 | 95.5 | 96.4 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0  | 97.0 | 97.0 |
| ≥ 300           | 90.0                     | 92.5 | 93.6 | 94.6 | 95.5 | 95.7 | 96.5 | 97.1 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2  | 97.2 | 97.2 |
| ≥ 200           | 90.0                     | 92.5 | 93.6 | 94.7 | 95.6 | 95.7 | 96.7 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3 |
| ≥ 100           | 90.0                     | 92.5 | 93.6 | 94.7 | 95.6 | 95.8 | 96.7 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3 |
| ≥ 0             | 90.0                     | 92.5 | 93.6 | 94.7 | 95.6 | 95.8 | 96.7 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3 |

TOTAL NUMBER OF OBSERVATIONS 17345

DATA COLLECTION DIVISION  
ETAC, USAF  
ASHVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93047  
STATION

CALIFORNIA SPRINGS DRIVE-PETERSON AFB

43-00

YEARS

DATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

100-1000  
FOOT-1000

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |       |        |        |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|--------|--------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 |
| NO CEILING      | 73.6                       | 74.0 | 74.7 | 74.5 | 74.8 | 74.5 | 74.6 | 74.8 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9  | 74.9   | 74.9   |
| ≥ 20000         | 72.4                       | 73.5 | 73.6 | 73.7 | 73.8 | 73.8 | 73.8 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9  | 73.9   | 73.9   |
| ≥ 18000         | 73.2                       | 74.4 | 74.5 | 74.5 | 74.6 | 74.7 | 74.7 | 74.6 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8  | 74.8   | 74.8   |
| ≥ 16000         | 74.3                       | 75.7 | 75.8 | 75.8 | 75.9 | 76.0 | 76.0 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1  | 76.1   | 76.1   |
| ≥ 14000         | 76.4                       | 77.6 | 77.7 | 77.8 | 77.9 | 78.0 | 78.0 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1  | 78.1   | 78.1   |
| ≥ 12000         | 77.7                       | 78.9 | 79.0 | 79.1 | 79.2 | 79.2 | 79.2 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3  | 79.3   | 79.3   |
| ≥ 10000         | 78.7                       | 79.9 | 80.0 | 80.1 | 80.2 | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3  | 80.3   | 80.3   |
| ≥ 9000          | 78.9                       | 80.1 | 80.2 | 80.3 | 80.4 | 80.4 | 80.4 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5  | 80.5   | 80.5   |
| ≥ 8000          | 79.1                       | 80.3 | 80.4 | 80.5 | 80.6 | 80.7 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8   | 80.8   |
| ≥ 7000          | 79.5                       | 81.1 | 81.2 | 81.2 | 81.3 | 81.4 | 81.4 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5  | 81.5   | 81.5   |
| ≥ 6000          | 80.6                       | 81.9 | 82.0 | 82.1 | 82.2 | 82.2 | 82.2 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3  | 82.3   | 82.3   |
| ≥ 5000          | 81.9                       | 83.2 | 83.4 | 83.5 | 83.6 | 83.7 | 83.7 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8   | 83.8   |
| ≥ 4500          | 82.3                       | 83.7 | 83.9 | 84.0 | 84.1 | 84.1 | 84.1 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2  | 84.2   | 84.2   |
| ≥ 4000          | 82.7                       | 84.2 | 84.4 | 84.6 | 84.7 | 84.7 | 84.7 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8   | 84.8   |
| ≥ 3500          | 83.1                       | 84.7 | 84.9 | 85.0 | 85.2 | 85.2 | 85.2 | 85.3 | 85.3 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4  | 85.4   | 85.4   |
| ≥ 3000          | 83.6                       | 85.2 | 85.3 | 85.5 | 85.6 | 85.6 | 85.6 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8   | 85.8   |
| ≥ 2500          | 84.3                       | 86.2 | 86.3 | 86.5 | 86.6 | 86.6 | 86.6 | 86.7 | 86.7 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8   | 86.8   |
| ≥ 2000          | 84.6                       | 87.0 | 87.4 | 87.5 | 87.8 | 87.8 | 87.8 | 87.9 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0   | 88.0   |
| ≥ 1800          | 84.5                       | 87.1 | 87.5 | 87.9 | 88.2 | 88.3 | 88.3 | 88.5 | 88.5 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6  | 88.6   | 88.6   |
| ≥ 1500          | 84.7                       | 87.4 | 87.9 | 88.4 | 88.8 | 88.9 | 88.9 | 89.2 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4   | 89.4   |
| ≥ 1200          | 84.8                       | 87.6 | 88.0 | 88.6 | 89.2 | 89.3 | 89.3 | 89.7 | 89.9 | 89.9 | 89.9 | 90.1 | 90.3 | 90.3  | 90.3   | 90.4   |
| ≥ 1000          | 85.0                       | 87.9 | 88.4 | 89.1 | 89.8 | 89.9 | 89.9 | 90.3 | 90.5 | 90.5 | 90.5 | 91.0 | 91.2 | 91.2  | 91.2   | 91.3   |
| ≥ 900           | 85.1                       | 88.2 | 88.7 | 89.3 | 90.1 | 90.2 | 90.2 | 90.6 | 90.8 | 90.8 | 90.8 | 91.3 | 91.5 | 91.5  | 91.5   | 91.6   |
| ≥ 800           | 85.2                       | 88.5 | 89.0 | 89.7 | 90.4 | 90.5 | 90.5 | 90.9 | 91.1 | 91.1 | 91.1 | 91.6 | 92.0 | 92.0  | 92.0   | 92.1   |
| ≥ 700           | 85.3                       | 89.0 | 89.6 | 90.3 | 91.0 | 91.1 | 91.1 | 91.5 | 91.8 | 91.8 | 91.8 | 92.3 | 92.6 | 92.6  | 92.6   | 92.6   |
| ≥ 600           | 85.7                       | 89.4 | 90.0 | 90.7 | 91.4 | 91.4 | 91.4 | 91.8 | 92.3 | 92.3 | 92.3 | 92.8 | 93.2 | 93.2  | 93.2   | 93.3   |
| ≥ 500           | 85.3                       | 90.0 | 90.7 | 91.4 | 92.2 | 92.3 | 92.3 | 92.8 | 93.1 | 93.1 | 93.1 | 93.6 | 94.0 | 94.0  | 94.0   | 94.1   |
| ≥ 400           | 85.9                       | 90.3 | 91.0 | 91.9 | 92.6 | 92.7 | 92.7 | 93.3 | 93.7 | 93.7 | 93.7 | 94.3 | 94.7 | 94.7  | 94.7   | 94.8   |
| ≥ 300           | 86.4                       | 90.4 | 91.3 | 92.2 | 93.0 | 93.1 | 93.1 | 93.7 | 94.2 | 94.2 | 94.2 | 94.8 | 95.3 | 95.3  | 95.3   | 95.4   |
| ≥ 200           | 86.4                       | 90.6 | 91.6 | 92.6 | 93.3 | 93.5 | 93.5 | 94.1 | 94.7 | 94.7 | 94.7 | 95.4 | 95.9 | 95.9  | 95.9   | 96.0   |
| ≥ 100           | 86.4                       | 90.6 | 91.6 | 92.6 | 93.3 | 93.5 | 93.5 | 94.1 | 94.7 | 94.7 | 94.7 | 95.4 | 95.9 | 95.9  | 95.9   | 96.0   |
| ≥ 0             | 86.4                       | 90.6 | 91.6 | 92.6 | 93.3 | 93.5 | 93.5 | 94.1 | 94.7 | 94.7 | 94.7 | 95.4 | 95.9 | 95.9  | 95.9   | 96.0   |

TOTAL NUMBER OF OBSERVATIONS

1764

DATA PROCESSING DIVISION  
ETAC, 1551  
SHEPHERD, A. F. 21001

# CEILING VERSUS VISIBILITY

94037 STATION CALIF. SPRINGS CIVIL-PETROLEUM, S. 1965 YEARS MONTH 0100-0500 HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES): |      |      |      |      |      |      |      |      |      |      |       |       |        |       |      |
|-----------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|-------|------|
|                       | ≥ 10                        | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 3/4 | ≥ 5/16 | ≥ 3/8 | ≥ 0  |
| NO CEILING<br>≥ 20000 | 71.1                        | 72.3 | 72.5 | 72.4 | 72.7 | 72.9 | 72.2 | 72.9 | 72.9 | 71.2 | 73.2 | 72.2  | 73.3  | 73.3   | 73.3  | 73.3 |
| ≥ 18000<br>≥ 16000    | 72.7                        | 72.9 | 73.6 | 73.9 | 73.7 | 73.8 | 73.9 | 73.9 | 74.2 | 74.2 | 74.2 | 74.2  | 74.2  | 74.2   | 74.2  | 74.2 |
| ≥ 14000<br>≥ 12000    | 75.8                        | 75.5 | 76.7 | 76.3 | 76.9 | 77.0 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1  | 77.1  | 77.1   | 77.1  | 77.1 |
| ≥ 10000<br>≥ 9000     | 78.3                        | 79.4 | 79.6 | 79.7 | 79.8 | 79.9 | 80.0 | 80.0 | 80.0 | 80.2 | 80.2 | 80.2  | 80.2  | 80.2   | 80.2  | 80.2 |
| ≥ 8000<br>≥ 7000      | 79.1                        | 80.0 | 80.3 | 80.4 | 80.5 | 80.6 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7  | 80.7  | 80.7   | 80.7  | 80.7 |
| ≥ 6000<br>≥ 5000      | 80.8                        | 81.7 | 82.0 | 82.1 | 82.2 | 82.4 | 82.4 | 82.4 | 82.4 | 82.7 | 82.7 | 82.7  | 82.7  | 82.7   | 82.7  | 82.7 |
| ≥ 4500<br>≥ 4000      | 82.7                        | 83.3 | 83.6 | 83.7 | 83.8 | 84.0 | 84.0 | 84.0 | 84.0 | 84.3 | 84.3 | 84.3  | 84.3  | 84.3   | 84.3  | 84.3 |
| ≥ 3500<br>≥ 3000      | 83.3                        | 84.2 | 84.4 | 84.5 | 84.6 | 84.9 | 84.9 | 84.9 | 84.9 | 85.2 | 85.2 | 85.2  | 85.2  | 85.2   | 85.2  | 85.2 |
| ≥ 2500<br>≥ 2000      | 84.4                        | 85.0 | 85.3 | 85.4 | 85.5 | 85.7 | 85.7 | 85.7 | 85.7 | 86.0 | 86.0 | 86.0  | 86.0  | 86.0   | 86.0  | 86.0 |
| ≥ 1800<br>≥ 1500      | 85.1                        | 85.4 | 85.7 | 85.7 | 85.8 | 86.0 | 86.0 | 86.0 | 86.0 | 86.3 | 86.3 | 86.3  | 86.3  | 86.3   | 86.3  | 86.3 |
| ≥ 1200<br>≥ 1000      | 85.3                        | 85.7 | 85.9 | 85.9 | 86.0 | 86.2 | 86.2 | 86.2 | 86.2 | 86.5 | 86.5 | 86.5  | 86.5  | 86.5   | 86.5  | 86.5 |
| ≥ 900<br>≥ 800        | 85.8                        | 86.1 | 86.4 | 86.4 | 86.5 | 86.7 | 86.7 | 86.7 | 86.7 | 87.0 | 87.0 | 87.0  | 87.0  | 87.0   | 87.0  | 87.0 |
| ≥ 700<br>≥ 500        | 86.3                        | 86.5 | 86.7 | 86.7 | 86.8 | 87.0 | 87.0 | 87.0 | 87.0 | 87.3 | 87.3 | 87.3  | 87.3  | 87.3   | 87.3  | 87.3 |
| ≥ 500<br>≥ 400        | 86.9                        | 87.0 | 87.2 | 87.2 | 87.3 | 87.5 | 87.5 | 87.5 | 87.5 | 87.8 | 87.8 | 87.8  | 87.8  | 87.8   | 87.8  | 87.8 |
| ≥ 300<br>≥ 200        | 87.0                        | 87.1 | 87.3 | 87.3 | 87.4 | 87.6 | 87.6 | 87.6 | 87.6 | 87.9 | 87.9 | 87.9  | 87.9  | 87.9   | 87.9  | 87.9 |
| ≥ 100<br>0            | 87.1                        | 87.1 | 87.3 | 87.3 | 87.4 | 87.6 | 87.6 | 87.6 | 87.6 | 87.9 | 87.9 | 87.9  | 87.9  | 87.9   | 87.9  | 87.9 |

TOTAL NUMBER OF OBSERVATIONS 1967

DATA PROCESSING DIVISION  
ETAG, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93047  
STATION

CLIPPER SPRINGS COLLEGE  
STATION NAME

43-0-  
YEARS

1977  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0000  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  |
| NO CEILING        | 51.2                       | 51.6 | 51.7 | 51.4 | 52.1 | 52.1 | 52.2 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3 | 52.3   | 52.4 |
| ≥ 20000           | 51.3                       | 51.6 | 51.7 | 51.5 | 52.1 | 52.1 | 52.2 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3 | 52.3   | 52.4 |
| ≥ 18000           | 67.7                       | 68.3 | 68.7 | 68.9 | 69.1 | 69.1 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2  | 69.2 | 69.2   | 69.2 |
| ≥ 16000           | 71.4                       | 71.6 | 71.6 | 71.6 | 71.8 | 71.8 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9  | 71.9 | 71.9   | 71.9 |
| ≥ 14000           | 74.0                       | 74.8 | 75.1 | 75.4 | 75.6 | 75.6 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7  | 75.7 | 75.7   | 75.7 |
| ≥ 12000           | 76.4                       | 77.7 | 78.1 | 78.4 | 78.6 | 78.6 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7  | 78.7 | 78.7   | 78.7 |
| ≥ 10000           | 78.6                       | 79.4 | 79.8 | 80.0 | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3  | 80.3 | 80.3   | 80.3 |
| ≥ 9000            | 79.0                       | 79.9 | 80.2 | 80.3 | 80.7 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8 | 80.8   | 80.8 |
| ≥ 8000            | 79.8                       | 80.7 | 81.1 | 81.3 | 81.5 | 81.5 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7   | 81.7 |
| ≥ 7000            | 80.0                       | 81.0 | 81.9 | 82.2 | 82.4 | 82.4 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5  | 82.5 | 82.5   | 82.5 |
| ≥ 6000            | 82.3                       | 83.3 | 83.9 | 84.2 | 84.5 | 84.5 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6   | 84.6 |
| ≥ 5000            | 82.3                       | 83.3 | 83.9 | 84.2 | 84.5 | 84.5 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6   | 84.6 |
| ≥ 4500            | 82.3                       | 83.3 | 83.9 | 84.2 | 84.5 | 84.5 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6   | 84.6 |
| ≥ 4000            | 83.7                       | 84.4 | 84.9 | 85.2 | 85.5 | 85.5 | 85.6 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7  | 85.7 | 85.7   | 85.7 |
| ≥ 3500            | 85.0                       | 85.4 | 85.4 | 85.8 | 86.3 | 86.3 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4  | 86.4 | 86.4   | 86.4 |
| ≥ 3000            | 85.0                       | 85.4 | 85.4 | 85.8 | 86.3 | 86.3 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4  | 86.4 | 86.4   | 86.4 |
| ≥ 2500            | 86.1                       | 86.5 | 86.5 | 87.2 | 87.7 | 87.7 | 87.7 | 88.0 | 88.0 | 88.1 | 88.2 | 88.2  | 88.3 | 88.3   | 88.4 |
| ≥ 2000            | 86.6                       | 87.2 | 87.2 | 87.9 | 88.6 | 88.6 | 88.8 | 88.9 | 88.9 | 89.1 | 89.1 | 89.1  | 89.2 | 89.4   | 89.4 |
| ≥ 1800            | 87.0                       | 87.3 | 87.3 | 87.9 | 88.7 | 88.7 | 89.0 | 89.0 | 89.0 | 89.2 | 89.3 | 89.3  | 89.4 | 89.4   | 89.5 |
| ≥ 1500            | 87.1                       | 88.0 | 88.0 | 88.7 | 89.5 | 89.5 | 89.9 | 89.9 | 89.9 | 90.2 | 90.3 | 90.3  | 90.5 | 90.5   | 90.5 |
| ≥ 1200            | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 1000            | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 900             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 800             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 700             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 600             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 500             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 400             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 300             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 200             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 100             | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |
| ≥ 0               | 88.2                       | 88.9 | 88.9 | 89.7 | 90.5 | 90.5 | 90.9 | 91.3 | 91.3 | 91.6 | 91.6 | 91.6  | 92.1 | 92.3   | 92.3 |

TOTAL NUMBER OF OBSERVATIONS 1977

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037 CALLED-OUT STATIONS COLG-PETERSON, IN

53-61

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07-0-1-10  
HOURS (L.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 67.1                       | 67.0 | 67.7 | 67.8 | 67.5 | 67.3 | 67.2 | 67.9 | 67.9 | 68.0 | 68.0 | 68.0  | 68.0 | 68.0   | 68.0 | 68.0 |
| NV 18000<br>16000     | 68.1                       | 68.7 | 68.7 | 68.8 | 68.8 | 68.8 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0  | 69.0 | 69.0   | 69.0 | 69.0 |
| NV 14000<br>12000     | 75.9                       | 76.5 | 76.5 | 76.7 | 76.7 | 76.7 | 76.7 | 76.8 | 76.8 | 76.8 | 76.9 | 76.9  | 76.9 | 76.9   | 76.9 | 76.9 |
| NV 10000<br>9000      | 81.2                       | 81.9 | 82.0 | 82.1 | 82.2 | 82.2 | 82.3 | 82.3 | 82.3 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4   | 82.4 | 82.4 |
| NV 8000<br>7000       | 87.4                       | 88.3 | 88.4 | 88.5 | 88.6 | 88.6 | 88.7 | 88.8 | 88.8 | 88.9 | 88.9 | 88.9  | 88.9 | 88.9   | 88.9 | 88.9 |
| NV 6000<br>5000       | 84.7                       | 85.7 | 85.8 | 85.9 | 86.0 | 86.0 | 86.1 | 86.2 | 86.2 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3   | 86.3 | 86.3 |
| NV 4500<br>4000       | 85.1                       | 86.1 | 86.2 | 86.3 | 86.4 | 86.4 | 86.5 | 86.6 | 86.6 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7   | 86.7 | 86.7 |
| NV 3500<br>3000       | 86.3                       | 87.4 | 87.6 | 87.8 | 87.9 | 87.9 | 88.1 | 88.2 | 88.2 | 88.3 | 88.3 | 88.3  | 88.3 | 88.3   | 88.3 | 88.3 |
| NV 2500<br>2000       | 87.0                       | 88.7 | 88.9 | 89.3 | 89.6 | 89.6 | 89.8 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0   | 90.0 | 90.0 |
| NV 1800<br>1500       | 87.7                       | 89.0 | 89.9 | 90.4 | 90.7 | 90.7 | 90.9 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1   | 91.1 | 91.1 |
| NV 1200<br>1000       | 88.3                       | 90.4 | 90.8 | 91.7 | 92.0 | 92.1 | 92.4 | 92.7 | 92.8 | 92.9 | 93.0 | 93.0  | 93.0 | 93.0   | 93.0 | 93.0 |
| NV 900<br>800         | 88.3                       | 90.7 | 91.2 | 92.1 | 92.5 | 92.6 | 92.9 | 93.2 | 93.3 | 93.6 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 | 93.9 |
| NV 700<br>600         | 88.7                       | 91.2 | 91.8 | 92.7 | 93.2 | 93.4 | 93.8 | 94.1 | 94.2 | 94.7 | 95.0 | 95.0  | 95.0 | 95.0   | 95.0 | 95.0 |
| NV 500<br>400         | 88.8                       | 91.7 | 92.6 | 93.7 | 94.3 | 94.5 | 95.4 | 96.1 | 96.1 | 96.9 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 97.5 |
| NV 300<br>200         | 88.8                       | 91.7 | 92.7 | 93.8 | 94.8 | 95.1 | 96.1 | 96.8 | 96.8 | 97.7 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |
| NV 100<br>0           | 88.8                       | 91.7 | 92.7 | 94.0 | 94.8 | 95.1 | 96.1 | 96.8 | 96.8 | 97.7 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |

TOTAL NUMBER OF OBSERVATIONS 1977

DATA PROCESSING DIVISION  
ETAC, 154F  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037 CULLEAD, SPRINGS COLLEGE-PETERSON, FC

43-6

YEARS

FILE

STATION

STATION NAME

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12.0m 1.0m  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |       |      |       |       |      |       |
|-------------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.2 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .1 | ≥ 0   |
| NO CEILING        | 43.3                     | 43.6 | 43.4 | 43.9 | 43.9 | 43.9  | 43.9 | 43.9  | 43.9  | 43.9 | 43.9  | 43.9 | 43.9  | 43.9  | 43.9 | 43.9  |
| ≥ 20000           | 55.7                     | 56.2 | 56.2 | 56.3 | 56.3 | 56.3  | 56.4 | 56.4  | 56.4  | 56.4 | 56.4  | 56.4 | 56.4  | 56.4  | 56.4 | 56.4  |
| ≥ 18000           | 67.2                     | 67.3 | 67.3 | 67.3 | 67.3 | 67.3  | 67.3 | 67.3  | 67.3  | 67.3 | 67.3  | 67.3 | 67.3  | 67.3  | 67.3 | 67.3  |
| ≥ 16000           | 75.1                     | 75.7 | 75.7 | 75.8 | 75.8 | 75.8  | 75.9 | 75.9  | 75.9  | 75.9 | 75.9  | 75.9 | 75.9  | 75.9  | 75.9 | 75.9  |
| ≥ 14000           | 77.0                     | 77.7 | 77.8 | 77.8 | 77.8 | 77.8  | 77.9 | 77.9  | 77.9  | 77.9 | 77.9  | 77.9 | 77.9  | 77.9  | 77.9 | 77.9  |
| ≥ 12000           | 77.0                     | 77.7 | 77.8 | 77.8 | 77.8 | 77.8  | 77.9 | 77.9  | 77.9  | 77.9 | 77.9  | 77.9 | 77.9  | 77.9  | 77.9 | 77.9  |
| ≥ 10000           | 78.6                     | 79.5 | 79.5 | 79.5 | 79.5 | 79.5  | 79.7 | 79.7  | 79.7  | 79.7 | 79.7  | 79.7 | 79.7  | 79.7  | 79.7 | 79.7  |
| ≥ 9000            | 79.1                     | 79.9 | 80.1 | 80.1 | 80.1 | 80.1  | 80.3 | 80.3  | 80.3  | 80.3 | 80.3  | 80.3 | 80.3  | 80.3  | 80.3 | 80.3  |
| ≥ 8000            | 79.3                     | 80.3 | 80.3 | 80.6 | 80.6 | 80.6  | 80.7 | 80.7  | 80.7  | 80.7 | 80.7  | 80.7 | 80.7  | 80.7  | 80.7 | 80.7  |
| ≥ 7000            | 80.7                     | 81.3 | 81.7 | 81.7 | 81.7 | 81.7  | 81.9 | 81.9  | 81.9  | 81.9 | 81.9  | 81.9 | 81.9  | 81.9  | 81.9 | 81.9  |
| ≥ 6000            | 82.4                     | 83.2 | 83.4 | 83.5 | 83.5 | 83.5  | 83.7 | 83.7  | 83.7  | 83.7 | 83.7  | 83.7 | 83.7  | 83.7  | 83.7 | 83.7  |
| ≥ 5000            | 83.1                     | 84.2 | 84.8 | 85.0 | 85.0 | 85.0  | 85.1 | 85.1  | 85.1  | 85.1 | 85.1  | 85.1 | 85.1  | 85.1  | 85.1 | 85.1  |
| ≥ 4500            | 84.1                     | 85.1 | 85.3 | 85.5 | 85.5 | 85.5  | 85.6 | 85.6  | 85.6  | 85.6 | 85.6  | 85.6 | 85.6  | 85.6  | 85.6 | 85.6  |
| ≥ 4000            | 85.2                     | 86.2 | 86.6 | 86.7 | 86.7 | 86.7  | 86.9 | 86.9  | 86.9  | 86.9 | 86.9  | 86.9 | 86.9  | 86.9  | 86.9 | 86.9  |
| ≥ 3500            | 85.0                     | 87.1 | 87.4 | 87.6 | 87.6 | 87.6  | 87.8 | 87.8  | 87.8  | 87.8 | 87.8  | 87.8 | 87.8  | 87.8  | 87.8 | 87.8  |
| ≥ 3000            | 85.9                     | 88.3 | 88.6 | 88.7 | 88.7 | 88.8  | 89.0 | 89.0  | 89.0  | 89.0 | 89.0  | 89.0 | 89.0  | 89.0  | 89.0 | 89.0  |
| ≥ 2500            | 87.8                     | 89.3 | 89.6 | 89.8 | 89.8 | 89.9  | 90.1 | 90.2  | 90.2  | 90.2 | 90.3  | 90.4 | 90.4  | 90.4  | 90.4 | 90.4  |
| ≥ 2000            | 88.8                     | 90.3 | 90.6 | 91.0 | 91.0 | 91.1  | 91.3 | 91.4  | 91.4  | 91.4 | 91.5  | 91.6 | 91.6  | 91.6  | 91.6 | 91.6  |
| ≥ 1800            | 88.5                     | 90.4 | 90.7 | 91.0 | 91.1 | 91.2  | 91.4 | 91.6  | 91.6  | 91.6 | 91.6  | 91.9 | 91.9  | 91.9  | 91.9 | 91.9  |
| ≥ 1500            | 88.9                     | 90.4 | 91.2 | 91.6 | 91.8 | 91.9  | 92.3 | 92.6  | 92.6  | 92.6 | 92.9  | 93.1 | 93.1  | 93.1  | 93.1 | 93.1  |
| ≥ 1200            | 89.3                     | 91.3 | 91.7 | 92.4 | 92.5 | 92.6  | 93.2 | 93.6  | 93.6  | 93.6 | 93.9  | 94.1 | 94.1  | 94.2  | 94.2 | 94.2  |
| ≥ 1000            | 89.7                     | 91.8 | 92.2 | 93.0 | 93.2 | 93.3  | 94.0 | 94.5  | 94.5  | 94.5 | 94.8  | 95.1 | 95.1  | 95.3  | 95.3 | 95.3  |
| ≥ 900             | 89.9                     | 92.0 | 92.4 | 93.2 | 93.4 | 93.5  | 94.3 | 94.7  | 94.8  | 94.8 | 95.1  | 95.5 | 95.5  | 95.7  | 95.7 | 95.7  |
| ≥ 800             | 90.0                     | 92.1 | 92.5 | 93.3 | 93.5 | 93.7  | 94.5 | 94.9  | 95.0  | 95.3 | 95.9  | 95.9 | 95.9  | 96.2  | 96.3 | 96.3  |
| ≥ 700             | 90.1                     | 92.4 | 92.9 | 93.8 | 94.0 | 94.2  | 95.1 | 95.6  | 95.6  | 95.6 | 96.0  | 96.4 | 96.4  | 96.9  | 97.0 | 97.0  |
| ≥ 600             | 90.1                     | 92.4 | 93.0 | 94.0 | 94.2 | 94.4  | 95.4 | 95.9  | 95.9  | 95.9 | 96.4  | 97.1 | 97.1  | 97.4  | 97.5 | 97.5  |
| ≥ 500             | 90.2                     | 92.5 | 93.2 | 94.2 | 94.7 | 94.9  | 96.0 | 96.5  | 96.6  | 96.6 | 97.1  | 97.9 | 97.9  | 98.2  | 98.3 | 98.4  |
| ≥ 400             | 90.3                     | 92.6 | 93.3 | 94.5 | 95.0 | 95.2  | 96.3 | 96.9  | 96.9  | 96.9 | 97.5  | 98.3 | 98.3  | 98.7  | 98.9 | 98.9  |
| ≥ 300             | 90.3                     | 92.6 | 93.6 | 94.7 | 95.3 | 95.5  | 96.6 | 97.2  | 97.3  | 97.3 | 97.9  | 98.7 | 98.7  | 99.3  | 99.4 | 99.7  |
| ≥ 200             | 90.3                     | 92.8 | 93.6 | 94.7 | 95.3 | 95.6  | 96.6 | 97.3  | 97.3  | 97.3 | 98.0  | 98.8 | 98.8  | 99.4  | 99.5 | 99.8  |
| ≥ 100             | 90.3                     | 92.8 | 93.6 | 94.7 | 95.3 | 95.6  | 96.6 | 97.3  | 97.3  | 97.3 | 98.0  | 98.8 | 98.8  | 99.4  | 99.5 | 99.8  |
| ≥ 0               | 90.3                     | 92.8 | 93.6 | 94.7 | 95.3 | 95.6  | 96.6 | 97.3  | 97.3  | 97.3 | 98.0  | 98.8 | 98.8  | 99.4  | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS

1978

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

94017  
STATION

COLLIER SPRINGS COLI-PETERSON, FL  
STATION NAME

43-00  
YEARS

FL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 2 3 4 5 6  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0   |
| NO CEILING        | 41.7                       | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3  |
| ≥ 20000           | 42.3                       | 44.1 | 44.1 | 44.2 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3  | 44.3 | 44.3   | 44.3 | 44.3  |
| ≥ 18000           | 45.0                       | 46.3 | 46.4 | 46.3 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5  | 46.5 | 46.5   | 46.5 | 46.5  |
| ≥ 16000           | 48.1                       | 48.8 | 48.9 | 48.7 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1  | 49.1 | 49.1   | 49.1 | 49.1  |
| ≥ 14000           | 72.4                       | 73.1 | 73.3 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4  | 73.4 | 73.4   | 73.4 | 73.4  |
| ≥ 12000           | 75.8                       | 75.7 | 75.8 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0  | 76.0 | 76.0   | 76.0 | 76.0  |
| ≥ 10000           | 77.0                       | 78.0 | 78.7 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9  | 78.9 | 78.9   | 78.9 | 78.9  |
| ≥ 9000            | 78.7                       | 79.5 | 79.9 | 80.0 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1  | 80.1 | 80.1   | 80.1 | 80.1  |
| ≥ 8000            | 79.7                       | 80.7 | 80.9 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1 | 81.1   | 81.1 | 81.1  |
| ≥ 7000            | 80.7                       | 81.7 | 82.0 | 82.2 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3  | 82.3 | 82.3   | 82.3 | 82.3  |
| ≥ 6000            | 82.3                       | 83.4 | 83.6 | 83.9 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0   | 84.0 | 84.0  |
| ≥ 5000            | 83.5                       | 84.6 | 84.9 | 85.1 | 85.2 | 85.2 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3  | 85.3 | 85.3   | 85.3 | 85.3  |
| ≥ 4500            | 83.9                       | 85.1 | 85.4 | 85.8 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 86.0 | 86.0  | 86.0 | 86.0   | 86.0 | 86.0  |
| ≥ 4000            | 84.8                       | 86.1 | 86.6 | 86.9 | 87.0 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 | 87.1  |
| ≥ 3500            | 85.2                       | 86.9 | 87.3 | 87.7 | 87.8 | 87.8 | 87.8 | 87.9 | 87.9 | 87.9 | 87.9 | 88.0  | 88.0 | 88.0   | 88.0 | 88.0  |
| ≥ 3000            | 86.0                       | 88.0 | 88.6 | 88.9 | 89.1 | 89.1 | 89.2 | 89.3 | 89.3 | 89.3 | 89.3 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4  |
| ≥ 2500            | 87.0                       | 89.1 | 89.8 | 90.2 | 90.4 | 90.4 | 90.5 | 90.6 | 90.6 | 90.6 | 90.7 | 90.7  | 90.7 | 90.7   | 90.7 | 90.7  |
| ≥ 2000            | 88.2                       | 89.9 | 90.6 | 91.2 | 91.4 | 91.4 | 91.7 | 91.8 | 91.8 | 91.8 | 91.9 | 91.9  | 91.9 | 92.0   | 92.0 | 92.0  |
| ≥ 1800            | 88.4                       | 90.0 | 90.8 | 91.4 | 91.6 | 91.6 | 92.0 | 92.0 | 92.0 | 92.1 | 92.1 | 92.2  | 92.2 | 92.2   | 92.2 | 92.2  |
| ≥ 1500            | 88.5                       | 90.0 | 91.5 | 92.2 | 92.6 | 92.6 | 93.0 | 93.2 | 93.2 | 93.3 | 93.3 | 93.4  | 93.5 | 93.5   | 93.5 | 93.5  |
| ≥ 1200            | 89.2                       | 91.1 | 92.1 | 92.6 | 93.2 | 93.3 | 93.9 | 94.2 | 94.2 | 94.4 | 94.5 | 94.5  | 94.6 | 94.6   | 94.6 | 94.6  |
| ≥ 1000            | 89.4                       | 91.4 | 92.4 | 93.1 | 93.5 | 93.8 | 94.5 | 94.8 | 94.8 | 95.1 | 95.4 | 95.5  | 95.8 | 95.8   | 95.9 | 95.9  |
| ≥ 900             | 89.6                       | 91.0 | 92.5 | 93.3 | 93.7 | 93.9 | 94.6 | 95.0 | 95.0 | 95.3 | 95.6 | 95.7  | 96.0 | 96.0   | 96.0 | 96.0  |
| ≥ 800             | 89.8                       | 91.0 | 92.8 | 93.7 | 94.1 | 94.3 | 95.1 | 95.4 | 95.5 | 95.8 | 96.1 | 96.2  | 96.6 | 96.6   | 96.7 | 96.7  |
| ≥ 700             | 89.8                       | 91.0 | 92.8 | 93.7 | 94.1 | 94.4 | 95.1 | 95.6 | 95.6 | 96.0 | 96.3 | 96.3  | 96.9 | 96.9   | 96.9 | 97.0  |
| ≥ 600             | 89.8                       | 91.9 | 92.9 | 93.8 | 94.3 | 94.6 | 95.3 | 95.9 | 96.0 | 96.4 | 96.7 | 96.8  | 97.4 | 97.4   | 97.5 | 97.5  |
| ≥ 500             | 89.8                       | 91.9 | 93.0 | 93.9 | 94.6 | 94.8 | 95.7 | 96.4 | 96.5 | 97.0 | 97.3 | 97.4  | 98.1 | 98.2   | 98.3 | 98.4  |
| ≥ 400             | 89.8                       | 92.0 | 93.2 | 94.2 | 94.9 | 95.2 | 96.0 | 96.8 | 96.9 | 97.6 | 98.0 | 98.1  | 98.9 | 99.0   | 99.1 | 99.2  |
| ≥ 300             | 89.9                       | 92.2 | 93.4 | 94.3 | 95.1 | 95.4 | 96.2 | 97.0 | 97.1 | 97.8 | 98.2 | 98.3  | 99.1 | 99.2   | 99.4 | 99.4  |
| ≥ 200             | 89.9                       | 92.2 | 93.4 | 94.3 | 95.1 | 95.4 | 96.2 | 97.0 | 97.1 | 97.8 | 98.2 | 98.3  | 99.1 | 99.2   | 99.5 | 99.7  |
| ≥ 100             | 89.9                       | 92.2 | 93.4 | 94.3 | 95.1 | 95.4 | 96.2 | 97.0 | 97.1 | 97.8 | 98.2 | 98.3  | 99.1 | 99.2   | 99.5 | 99.8  |
| ≥ 0               | 89.9                       | 92.2 | 93.4 | 94.3 | 95.1 | 95.4 | 96.2 | 97.0 | 97.1 | 97.8 | 98.2 | 98.3  | 99.1 | 99.2   | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1974

5



1



**Summary**

1

1561



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93547  
STATION

CELEBRATION SPRINGS LUGG-PETERSON FLD  
STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1960  
MONTHS (LST)

| CEILING<br>FEET       | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                       | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1½ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  |
| NO CEILING<br>≥ 20000 | 72.4                     | 63.3 | 63.4 | 63.5 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6  | 63.6 | 63.6   | 63.6 |
| 18500                 | 71.0                     | 72.1 | 72.3 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4  | 72.4 | 72.4   | 72.4 |
| 16000                 | 71.6                     | 74.0 | 73.0 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1  | 73.1 | 73.1   | 73.1 |
| 14000                 | 72.8                     | 75.4 | 74.1 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2  | 74.2 | 74.2   | 74.2 |
| 12000                 | 73.0                     | 76.2 | 76.3 | 76.4 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5  | 76.5 | 76.5   | 76.5 |
| 10000                 | 77.0                     | 76.2 | 75.4 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5  | 76.5 | 76.5   | 76.5 |
| 9000                  | 78.1                     | 79.4 | 79.4 | 79.5 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6  | 79.6 | 79.6   | 79.6 |
| 8000                  | 78.7                     | 79.4 | 79.6 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7  | 79.7 | 79.7   | 79.7 |
| 7000                  | 79.2                     | 80.5 | 80.7 | 80.8 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9  | 80.9 | 80.9   | 80.9 |
| 6000                  | 80.0                     | 81.3 | 81.5 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6  | 81.6 | 81.6   | 81.6 |
| 5000                  | 80.8                     | 82.0 | 82.2 | 82.3 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4   | 82.4 |
| 4500                  | 81.2                     | 83.0 | 83.2 | 83.3 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4  | 83.4 | 83.4   | 83.4 |
| 4000                  | 82.0                     | 83.4 | 83.6 | 83.7 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 | 83.8   | 83.8 |
| 3500                  | 82.4                     | 83.9 | 84.2 | 84.3 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4 | 84.4   | 84.4 |
| 3000                  | 83.0                     | 84.5 | 84.9 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2  | 85.2 | 85.2   | 85.2 |
| 2500                  | 83.3                     | 85.1 | 85.5 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8   | 85.8 |
| 2000                  | 83.7                     | 85.9 | 86.4 | 86.7 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8 | 86.8   | 86.8 |
| 1800                  | 84.4                     | 86.8 | 87.4 | 88.0 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3  | 88.3 | 88.3   | 88.3 |
| 1500                  | 84.6                     | 87.1 | 87.9 | 88.4 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7  | 88.7 | 88.7   | 88.7 |
| 1200                  | 84.8                     | 87.4 | 88.3 | 89.0 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3   | 89.3 |
| 1000                  | 84.9                     | 87.7 | 88.6 | 89.3 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  | 89.6 | 89.6   | 89.6 |
| 900                   | 85.2                     | 88.1 | 89.1 | 89.6 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  | 90.3 | 90.3   | 90.3 |
| 800                   | 85.5                     | 88.5 | 89.6 | 90.4 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9   | 90.9 |
| 700                   | 85.7                     | 88.7 | 89.8 | 90.7 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2  | 91.2 | 91.2   | 91.2 |
| 600                   | 85.8                     | 89.0 | 90.1 | 90.9 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4   | 91.4 |
| 500                   | 86.1                     | 89.5 | 90.7 | 91.5 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1   | 92.1 |
| 400                   | 86.2                     | 89.8 | 91.0 | 91.9 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4  | 92.4 | 92.4   | 92.4 |
| 300                   | 86.7                     | 90.4 | 91.6 | 92.6 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 |
| 200                   | 86.9                     | 90.7 | 91.8 | 92.8 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6   | 93.6 |
| 100                   | 86.6                     | 90.7 | 91.9 | 93.0 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8   | 93.8 |
| 0                     | 86.8                     | 90.8 | 92.0 | 93.0 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8   | 93.8 |

TOTAL NUMBER OF OBSERVATIONS 1960

DATA PROCESSING DIVISION  
ETAC, 1964  
ASHVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

STATION 94067 COLUMBUS SPRINGS (OLD-PETERS) FC 43-5 YEARS 1961 MONTH ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 57.5                     | 54.6 | 54.1 | 54.1 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2  | 54.2 | 54.2  | 54.2 | 54.2 |
| ≥ 20000           | 57.5                     | 54.6 | 54.1 | 54.1 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2  | 54.2 | 54.2  | 54.2 | 54.2 |
| ≥ 18000           | 70.5                     | 70.5 | 70.4 | 70.5 | 70.5 | 70.5 | 70.5 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7  | 70.7 | 70.7  | 70.7 | 70.7 |
| ≥ 16000           | 72.6                     | 72.4 | 72.5 | 72.6 | 72.7 | 72.7 | 72.7 | 72.8 | 72.8 | 72.8 | 72.8 | 72.8  | 72.8 | 72.8  | 72.8 | 72.8 |
| ≥ 14000           | 74.7                     | 75.0 | 75.7 | 75.8 | 75.9 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0  | 76.0 | 76.0  | 76.0 | 76.0 |
| ≥ 12000           | 77.2                     | 78.1 | 78.2 | 78.3 | 78.4 | 78.4 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5  | 78.5 | 78.5  | 78.5 | 78.5 |
| ≥ 10000           | 79.7                     | 79.6 | 79.8 | 79.9 | 80.0 | 80.0 | 80.0 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1  | 80.1 | 80.1  | 80.1 | 80.1 |
| ≥ 9000            | 79.1                     | 80.0 | 80.2 | 80.3 | 80.4 | 80.4 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5  | 80.5 | 80.5  | 80.5 | 80.5 |
| ≥ 8000            | 81.8                     | 80.8 | 81.0 | 81.1 | 81.2 | 81.2 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3  | 81.3 | 81.3  | 81.3 | 81.3 |
| ≥ 7000            | 81.7                     | 81.7 | 81.9 | 82.0 | 82.1 | 82.1 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2  | 82.2 | 82.2  | 82.2 | 82.2 |
| ≥ 6000            | 81.7                     | 82.7 | 82.9 | 83.1 | 83.1 | 83.2 | 83.2 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3  | 83.3 | 83.3  | 83.3 | 83.3 |
| ≥ 5000            | 82.7                     | 83.9 | 84.1 | 84.2 | 84.3 | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5  | 84.5 | 84.5 |
| ≥ 4500            | 83.1                     | 84.3 | 84.6 | 84.7 | 84.8 | 84.9 | 84.9 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0  | 85.0 | 85.0  | 85.0 | 85.0 |
| ≥ 4000            | 83.8                     | 85.1 | 85.4 | 85.6 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8  | 85.8 | 85.8 |
| ≥ 3500            | 84.3                     | 85.8 | 86.1 | 86.3 | 86.5 | 86.5 | 86.6 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 3000            | 85.0                     | 86.5 | 86.9 | 87.2 | 87.4 | 87.4 | 87.5 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6 | 87.6  | 87.6 | 87.6 |
| ≥ 2500            | 85.6                     | 87.2 | 87.7 | 88.1 | 88.3 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5  | 88.5 | 88.5 |
| ≥ 2000            | 86.2                     | 88.1 | 88.7 | 89.1 | 89.4 | 89.5 | 89.7 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  | 89.8 | 89.8  | 89.8 | 89.8 |
| ≥ 1800            | 86.3                     | 88.3 | 88.8 | 89.3 | 89.6 | 89.7 | 90.0 | 90.1 | 90.1 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2  | 90.2 | 90.2 |
| ≥ 1500            | 86.6                     | 88.7 | 89.4 | 89.9 | 90.3 | 90.4 | 90.5 | 90.9 | 91.0 | 91.1 | 91.2 | 91.2  | 91.2 | 91.2  | 91.2 | 91.2 |
| ≥ 1200            | 86.8                     | 89.1 | 89.8 | 90.2 | 90.9 | 91.0 | 91.4 | 91.7 | 91.7 | 91.9 | 92.0 | 92.0  | 92.0 | 92.0  | 92.0 | 92.0 |
| ≥ 1000            | 87.1                     | 89.5 | 90.2 | 91.0 | 91.5 | 91.6 | 92.1 | 92.4 | 92.4 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6  | 92.6 | 92.6 |
| ≥ 900             | 87.3                     | 89.8 | 90.5 | 91.3 | 91.8 | 91.9 | 92.5 | 92.8 | 92.8 | 93.2 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 | 93.5 |
| ≥ 800             | 87.5                     | 90.0 | 90.7 | 91.5 | 92.1 | 92.3 | 92.9 | 93.2 | 93.2 | 93.7 | 94.1 | 94.0  | 94.0 | 94.0  | 94.0 | 94.0 |
| ≥ 700             | 87.8                     | 90.3 | 91.1 | 91.9 | 92.5 | 92.6 | 93.3 | 93.6 | 93.6 | 94.2 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6 | 94.6 |
| ≥ 600             | 87.8                     | 90.6 | 91.4 | 92.2 | 92.9 | 93.0 | 93.8 | 94.1 | 94.2 | 94.8 | 94.8 | 94.8  | 94.8 | 94.8  | 94.8 | 94.8 |
| ≥ 500             | 87.9                     | 90.6 | 91.7 | 92.6 | 93.3 | 93.5 | 94.2 | 94.7 | 94.7 | 95.4 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9 |
| ≥ 400             | 88.0                     | 91.0 | 92.0 | 93.0 | 93.7 | 93.9 | 94.7 | 95.2 | 95.3 | 96.0 | 96.6 | 96.6  | 96.6 | 96.6  | 96.6 | 96.6 |
| ≥ 300             | 88.1                     | 91.1 | 92.2 | 93.2 | 94.0 | 94.2 | 95.0 | 95.6 | 95.6 | 96.5 | 97.1 | 97.2  | 97.2 | 97.2  | 97.2 | 97.2 |
| ≥ 200             | 88.1                     | 91.2 | 92.2 | 93.3 | 94.1 | 94.3 | 95.2 | 95.7 | 95.8 | 96.7 | 97.4 | 97.4  | 97.4 | 97.4  | 97.4 | 97.4 |
| ≥ 100             | 88.1                     | 91.2 | 92.3 | 93.3 | 94.1 | 94.3 | 95.2 | 95.8 | 95.9 | 96.8 | 97.5 | 97.5  | 97.5 | 97.5  | 97.5 | 97.5 |
| ≥ 0               | 88.1                     | 91.2 | 92.3 | 93.3 | 94.1 | 94.3 | 95.2 | 95.8 | 95.9 | 96.8 | 97.5 | 97.5  | 97.5 | 97.5  | 97.5 | 97.5 |

TOTAL NUMBER OF OBSERVATIONS 15752

5

DATA PROCESSING DIVISION  
ETAC, USN  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

CLARK-FR SPRINGS CIL - PETERCO, I.  
STATION NAME

43-4  
YEAR

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6300-0-0  
HOUSE LCL 17

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0   |
| NO CEILING      | 59.8                       | 50.2 | 60.3 | 60.3 | 50.4 | 60.5 | 60.5 | 60.5 | 60.5 | 60.3 | 60.1 | 60.3  | 60.4 | 60.5   | 60.5 | 60.5  |
| ≥ 25000         | 64.9                       | 57.2 | 67.4 | 67.5 | 57.6 | 67.7 | 67.6 | 67.6 | 67.6 | 67.7 | 67.6 | 67.7  | 67.7 | 67.7   | 67.7 | 67.7  |
| ≥ 18000         | 67.4                       | 67.2 | 68.0 | 68.1 | 68.2 | 68.2 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3  | 68.4 | 68.4   | 68.4 | 68.4  |
| ≥ 16000         | 68.7                       | 68.2 | 69.3 | 69.4 | 69.5 | 69.5 | 69.5 | 69.5 | 69.5 | 69.5 | 69.5 | 69.5  | 69.7 | 69.7   | 69.7 | 69.7  |
| ≥ 14000         | 70.9                       | 71.1 | 71.2 | 71.3 | 71.4 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5  | 71.7 | 71.7   | 71.7 | 71.7  |
| ≥ 12000         | 72.4                       | 72.4 | 73.0 | 73.1 | 73.1 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2  | 73.4 | 73.4   | 73.4 | 73.4  |
| ≥ 10000         | 73.9                       | 74.5 | 74.6 | 74.6 | 74.7 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8  | 75.0 | 75.0   | 75.0 | 75.0  |
| ≥ 9000          | 74.2                       | 74.7 | 74.9 | 75.2 | 75.0 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1  | 75.2 | 75.2   | 75.2 | 75.2  |
| ≥ 8000          | 76.8                       | 75.4 | 75.5 | 75.6 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7  | 75.7 | 75.7   | 75.7 | 75.7  |
| ≥ 7000          | 75.0                       | 75.6 | 75.8 | 75.9 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0  | 76.2 | 76.2   | 76.2 | 76.2  |
| ≥ 6000          | 76.2                       | 76.4 | 77.0 | 77.1 | 77.2 | 77.2 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3  | 77.4 | 77.4   | 77.4 | 77.4  |
| ≥ 5000          | 77.2                       | 77.4 | 78.0 | 78.2 | 78.3 | 78.3 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4  | 78.6 | 78.6   | 78.6 | 78.6  |
| ≥ 4500          | 77.6                       | 78.3 | 78.4 | 78.6 | 78.6 | 78.7 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8  | 78.9 | 78.9   | 78.9 | 78.9  |
| ≥ 4000          | 78.0                       | 78.6 | 79.0 | 79.1 | 79.2 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3  | 79.4 | 79.4   | 79.4 | 79.4  |
| ≥ 3500          | 78.8                       | 79.6 | 79.9 | 80.0 | 80.1 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3  | 80.4 | 80.4   | 80.4 | 80.4  |
| ≥ 3000          | 79.4                       | 80.7 | 80.9 | 81.3 | 81.6 | 81.6 | 81.8 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9  | 82.1 | 82.1   | 82.1 | 82.1  |
| ≥ 2500          | 80.5                       | 81.9 | 82.3 | 82.7 | 83.0 | 83.1 | 83.3 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4  | 83.5 | 83.5   | 83.5 | 83.5  |
| ≥ 2000          | 81.7                       | 83.5 | 84.0 | 84.4 | 84.7 | 84.8 | 85.1 | 85.4 | 85.5 | 85.5 | 85.5 | 85.5  | 85.7 | 85.7   | 85.7 | 85.7  |
| ≥ 1800          | 82.1                       | 84.0 | 84.5 | 85.0 | 85.5 | 85.6 | 86.0 | 86.2 | 86.2 | 86.3 | 86.3 | 86.3  | 86.4 | 86.4   | 86.4 | 86.4  |
| ≥ 1500          | 83.0                       | 85.1 | 85.7 | 86.3 | 86.9 | 86.9 | 87.4 | 87.6 | 87.6 | 87.7 | 87.7 | 87.7  | 87.8 | 87.8   | 87.8 | 87.8  |
| ≥ 1200          | 83.4                       | 85.6 | 86.4 | 87.1 | 87.6 | 87.7 | 88.3 | 88.7 | 88.7 | 88.7 | 88.8 | 88.8  | 89.0 | 89.0   | 89.2 | 89.2  |
| ≥ 1000          | 84.0                       | 86.3 | 87.1 | 87.9 | 88.4 | 88.5 | 89.2 | 89.6 | 89.6 | 89.6 | 89.8 | 89.8  | 90.2 | 90.2   | 90.3 | 90.4  |
| ≥ 900           | 84.7                       | 86.8 | 87.4 | 88.2 | 88.8 | 88.9 | 89.6 | 90.1 | 90.1 | 90.1 | 90.4 | 90.4  | 90.8 | 90.8   | 91.0 | 91.1  |
| ≥ 800           | 84.7                       | 87.3 | 87.9 | 88.8 | 89.3 | 89.4 | 90.2 | 90.7 | 90.7 | 90.7 | 91.2 | 91.2  | 91.7 | 91.7   | 92.1 | 92.2  |
| ≥ 700           | 84.8                       | 87.4 | 88.0 | 88.9 | 89.4 | 89.7 | 90.5 | 91.1 | 91.1 | 91.2 | 91.6 | 92.2  | 92.2 | 92.6   | 92.6 | 92.7  |
| ≥ 600           | 85.0                       | 87.7 | 88.3 | 89.3 | 90.1 | 90.2 | 91.0 | 91.7 | 91.7 | 91.8 | 92.3 | 93.0  | 93.0 | 93.5   | 93.5 | 93.6  |
| ≥ 500           | 85.5                       | 88.3 | 89.1 | 90.2 | 90.9 | 91.0 | 91.9 | 92.7 | 92.7 | 93.3 | 94.2 | 94.8  | 94.8 | 94.8   | 95.0 | 95.0  |
| ≥ 400           | 85.6                       | 88.5 | 89.4 | 90.4 | 91.2 | 91.3 | 92.2 | 93.0 | 93.1 | 93.7 | 94.8 | 94.8  | 95.4 | 95.4   | 95.6 | 95.6  |
| ≥ 300           | 85.7                       | 88.8 | 89.7 | 90.8 | 91.6 | 91.9 | 92.9 | 93.8 | 93.8 | 94.5 | 95.7 | 95.7  | 96.5 | 96.5   | 96.8 | 96.8  |
| ≥ 200           | 85.7                       | 88.8 | 89.8 | 91.0 | 91.8 | 92.1 | 93.1 | 94.0 | 94.1 | 95.0 | 96.3 | 96.4  | 97.3 | 97.4   | 97.7 | 97.7  |
| ≥ 100           | 85.7                       | 88.8 | 89.8 | 91.0 | 91.8 | 92.2 | 93.2 | 94.1 | 94.2 | 95.2 | 96.5 | 96.6  | 97.7 | 97.8   | 98.1 | 98.4  |
| ≥ 0             | 85.7                       | 88.8 | 89.8 | 91.0 | 91.8 | 92.4 | 93.2 | 94.1 | 94.2 | 95.2 | 96.6 | 96.6  | 97.7 | 97.8   | 98.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2145

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28811

# CEILING VERSUS VISIBILITY

93037  
STATION

COLUMBIAN SPRINGS CLIC-PETERSON, NC  
STATION NAME

43-45  
YEARS

12  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

73.0-73.0  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |         |      |         |         |      |       |       |       |        |       |      |
|-----------------|----------------------------|------|------|------|------|---------|------|---------|---------|------|-------|-------|-------|--------|-------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2 1/2 | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1  | ≥ 3/4 | ≥ 5/8 | ≥ 1/2 | ≥ 5/16 | ≥ 1/4 | ≥ 0  |
| NO CEILING      | 58.6                       | 59.1 | 59.1 | 59.7 | 59.3 | 59.5    | 59.5 | 59.5    | 59.5    | 59.5 | 59.5  | 59.5  | 59.5  | 59.5   | 59.5  | 59.7 |
| ≥ 20000         | 58.7                       | 57.7 | 57.3 | 57.4 | 57.5 | 57.6    | 57.7 | 57.7    | 57.8    | 57.8 | 57.8  | 57.8  | 57.8  | 57.8   | 57.8  | 57.8 |
| ≥ 18000         | 57.0                       | 57.2 | 57.6 | 57.7 | 57.8 | 58.0    | 58.0 | 58.1    | 58.1    | 58.1 | 58.2  | 58.2  | 58.2  | 58.2   | 58.2  | 58.5 |
| ≥ 16000         | 54.2                       | 54.0 | 54.8 | 54.9 | 54.0 | 54.2    | 54.7 | 54.3    | 54.3    | 54.3 | 54.3  | 54.3  | 54.3  | 54.3   | 54.3  | 54.7 |
| ≥ 14000         | 70.3                       | 70.9 | 70.9 | 71.0 | 71.1 | 71.3    | 71.3 | 71.4    | 71.4    | 71.4 | 71.5  | 71.5  | 71.5  | 71.5   | 71.5  | 71.6 |
| ≥ 12000         | 72.7                       | 72.4 | 72.4 | 72.4 | 72.6 | 72.7    | 72.8 | 72.8    | 72.8    | 72.9 | 72.9  | 72.9  | 72.9  | 72.9   | 72.9  | 72.9 |
| ≥ 10000         | 74.4                       | 75.1 | 75.1 | 75.2 | 75.4 | 75.5    | 75.6 | 75.6    | 75.7    | 75.7 | 75.7  | 75.7  | 75.7  | 75.7   | 75.7  | 75.7 |
| ≥ 9000          | 74.9                       | 75.5 | 75.6 | 75.7 | 75.9 | 76.0    | 76.1 | 76.1    | 76.2    | 76.2 | 76.2  | 76.2  | 76.2  | 76.2   | 76.2  | 76.2 |
| ≥ 8000          | 75.1                       | 75.8 | 75.9 | 76.0 | 76.2 | 76.3    | 76.4 | 76.4    | 76.5    | 76.5 | 76.5  | 76.5  | 76.5  | 76.5   | 76.5  | 76.5 |
| ≥ 7000          | 75.6                       | 76.3 | 76.4 | 76.5 | 76.7 | 76.8    | 76.9 | 76.9    | 77.0    | 77.0 | 77.1  | 77.1  | 77.1  | 77.1   | 77.1  | 77.1 |
| ≥ 6000          | 76.2                       | 76.9 | 77.0 | 77.1 | 77.3 | 77.4    | 77.5 | 77.5    | 77.6    | 77.6 | 77.6  | 77.6  | 77.6  | 77.6   | 77.6  | 77.6 |
| ≥ 5000          | 77.1                       | 78.1 | 78.1 | 78.3 | 78.5 | 78.5    | 78.7 | 78.7    | 78.8    | 78.8 | 78.8  | 78.8  | 78.8  | 78.8   | 78.8  | 78.8 |
| ≥ 4500          | 77.5                       | 78.5 | 78.6 | 78.7 | 78.9 | 79.1    | 79.1 | 79.2    | 79.2    | 79.2 | 79.3  | 79.3  | 79.3  | 79.3   | 79.3  | 79.3 |
| ≥ 4000          | 77.9                       | 78.9 | 79.0 | 79.1 | 79.4 | 79.5    | 79.6 | 79.6    | 79.7    | 79.7 | 79.7  | 79.7  | 79.7  | 79.7   | 79.7  | 79.7 |
| ≥ 3500          | 78.7                       | 79.6 | 79.8 | 80.1 | 80.4 | 80.5    | 80.6 | 80.7    | 80.7    | 80.6 | 80.9  | 80.9  | 80.9  | 80.9   | 80.9  | 80.9 |
| ≥ 3000          | 79.3                       | 80.4 | 80.7 | 81.2 | 81.5 | 81.7    | 81.8 | 81.8    | 81.8    | 81.9 | 82.0  | 82.0  | 82.0  | 82.0   | 82.0  | 82.0 |
| ≥ 2500          | 80.2                       | 81.5 | 81.8 | 82.5 | 83.0 | 83.3    | 83.4 | 83.5    | 83.5    | 83.6 | 83.7  | 83.7  | 83.7  | 83.7   | 83.7  | 83.7 |
| ≥ 2000          | 81.5                       | 83.1 | 83.6 | 84.5 | 85.1 | 85.3    | 85.5 | 85.5    | 85.6    | 85.6 | 85.7  | 85.7  | 85.7  | 85.7   | 85.7  | 85.7 |
| ≥ 1800          | 81.7                       | 83.3 | 83.8 | 84.8 | 85.4 | 85.7    | 86.0 | 86.1    | 86.1    | 86.2 | 86.3  | 86.3  | 86.3  | 86.3   | 86.3  | 86.3 |
| ≥ 1500          | 82.5                       | 84.3 | 84.7 | 85.8 | 86.6 | 86.9    | 87.4 | 87.6    | 87.6    | 87.7 | 87.8  | 87.8  | 87.8  | 87.8   | 87.8  | 87.8 |
| ≥ 1200          | 83.1                       | 85.0 | 85.5 | 86.7 | 87.7 | 87.9    | 88.4 | 88.8    | 88.9    | 88.9 | 89.0  | 89.0  | 89.0  | 89.0   | 89.0  | 89.0 |
| ≥ 1000          | 83.7                       | 85.7 | 86.4 | 87.6 | 88.6 | 88.9    | 89.5 | 89.9    | 89.9    | 90.1 | 90.2  | 90.3  | 90.3  | 90.3   | 90.3  | 90.3 |
| ≥ 900           | 84.0                       | 86.0 | 86.8 | 88.0 | 89.0 | 89.3    | 89.9 | 90.5    | 90.5    | 90.7 | 90.9  | 90.9  | 90.9  | 90.9   | 90.9  | 90.9 |
| ≥ 800           | 84.2                       | 86.3 | 87.1 | 88.3 | 89.4 | 89.7    | 90.4 | 91.0    | 91.0    | 91.6 | 91.9  | 91.9  | 91.9  | 91.9   | 91.9  | 91.9 |
| ≥ 700           | 84.8                       | 86.5 | 87.4 | 88.5 | 89.6 | 90.0    | 90.7 | 91.3    | 91.4    | 92.0 | 92.4  | 92.4  | 92.4  | 92.4   | 92.4  | 92.4 |
| ≥ 600           | 85.8                       | 87.2 | 88.2 | 89.5 | 90.6 | 90.9    | 91.7 | 92.4    | 92.4    | 93.0 | 93.5  | 93.5  | 93.5  | 93.5   | 93.5  | 93.5 |
| ≥ 500           | 85.0                       | 87.7 | 88.8 | 90.2 | 91.4 | 91.7    | 92.5 | 93.3    | 93.3    | 94.1 | 94.7  | 94.7  | 94.7  | 94.7   | 94.7  | 94.7 |
| ≥ 400           | 85.1                       | 88.1 | 89.3 | 90.9 | 92.2 | 92.6    | 93.5 | 94.3    | 94.3    | 95.0 | 95.6  | 95.6  | 95.6  | 95.6   | 95.6  | 95.6 |
| ≥ 300           | 85.3                       | 88.5 | 89.7 | 91.4 | 92.9 | 93.2    | 94.3 | 95.3    | 95.3    | 96.2 | 97.0  | 97.0  | 97.0  | 97.0   | 97.0  | 97.0 |
| ≥ 200           | 85.3                       | 88.5 | 89.8 | 91.5 | 93.0 | 93.3    | 94.5 | 95.5    | 95.5    | 96.7 | 97.4  | 97.4  | 97.4  | 97.4   | 97.4  | 97.4 |
| ≥ 100           | 85.3                       | 88.5 | 89.8 | 91.6 | 93.0 | 93.4    | 94.6 | 95.7    | 95.7    | 96.8 | 97.6  | 97.6  | 97.6  | 97.6   | 97.6  | 97.6 |
| ≥ 0             | 85.3                       | 88.5 | 89.8 | 91.6 | 93.0 | 93.4    | 94.6 | 95.7    | 95.7    | 96.8 | 97.6  | 97.6  | 97.6  | 97.6   | 97.6  | 97.6 |

TOTAL NUMBER OF OBSERVATIONS 2154

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93017 COLORADO SPRINGS CO. 3-PETERSON, FO 43-61 STATION NAME YEARS MONTH HOURS U.S.T.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |        |        |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|--------|--------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 7/16 | ≥ 5/16 | ≥ ¼  | ≥ 0   |
| NO CEILING      | 49.8                       | 50.5 | 50.6 | 50.7 | 50.9 | 50.8 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9  | 50.9   | 50.9   | 50.9 | 50.9  |
| ≥ 20000         | 52.4                       | 54.9 | 64.7 | 64.8 | 64.9 | 65.0 | 65.2 | 65.3 | 65.3 | 65.3 | 65.4 | 65.4  | 65.4   | 65.5   | 65.5 | 65.7  |
| ≥ 18000         | 64.7                       | 65.0 | 65.9 | 66.1 | 66.3 | 66.3 | 66.5 | 66.6 | 66.6 | 66.6 | 66.6 | 66.6  | 66.6   | 66.6   | 66.7 | 67.1  |
| ≥ 16000         | 67.2                       | 68.3 | 68.4 | 68.5 | 68.8 | 68.8 | 69.0 | 69.1 | 69.1 | 69.1 | 69.1 | 69.2  | 69.2   | 69.3   | 69.3 | 69.5  |
| ≥ 14000         | 70.1                       | 71.2 | 71.4 | 71.5 | 71.7 | 71.8 | 71.9 | 72.1 | 72.1 | 72.1 | 72.1 | 72.2  | 72.2   | 72.3   | 72.3 | 72.5  |
| ≥ 12000         | 72.5                       | 74.0 | 74.8 | 75.1 | 75.3 | 75.4 | 75.5 | 75.7 | 75.7 | 75.7 | 75.7 | 75.8  | 75.8   | 75.9   | 76.0 | 76.1  |
| ≥ 10000         | 75.3                       | 76.0 | 76.7 | 77.0 | 77.3 | 77.3 | 77.5 | 77.7 | 77.7 | 77.7 | 77.7 | 77.8  | 77.8   | 77.9   | 77.9 | 78.0  |
| ≥ 9000          | 76.0                       | 77.2 | 77.4 | 77.7 | 78.0 | 78.0 | 78.2 | 78.4 | 78.4 | 78.4 | 78.4 | 78.5  | 78.5   | 78.6   | 78.6 | 78.6  |
| ≥ 8000          | 76.2                       | 77.5 | 77.7 | 78.0 | 78.3 | 78.3 | 78.5 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6  | 78.6   | 78.6   | 78.6 | 78.6  |
| ≥ 7000          | 76.0                       | 78.1 | 78.3 | 78.6 | 78.9 | 79.0 | 79.1 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3  | 79.3   | 79.3   | 79.3 | 79.3  |
| ≥ 6000          | 77.5                       | 78.8 | 79.0 | 79.3 | 79.6 | 79.6 | 79.8 | 80.0 | 80.0 | 80.0 | 80.0 | 80.2  | 80.2   | 80.2   | 80.3 | 80.3  |
| ≥ 5000          | 78.5                       | 79.8 | 80.0 | 80.2 | 80.6 | 80.6 | 80.8 | 80.9 | 80.9 | 81.0 | 81.1 | 81.2  | 81.2   | 81.2   | 81.3 | 81.4  |
| ≥ 4500          | 79.2                       | 80.6 | 80.8 | 81.1 | 81.4 | 81.5 | 81.7 | 81.8 | 81.8 | 81.9 | 82.0 | 82.0  | 82.0   | 82.1   | 82.1 | 82.2  |
| ≥ 4000          | 79.5                       | 81.0 | 81.2 | 81.5 | 81.9 | 82.0 | 82.1 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3  | 82.3   | 82.3   | 82.3 | 82.3  |
| ≥ 3500          | 79.9                       | 81.6 | 81.9 | 82.2 | 82.6 | 82.6 | 82.8 | 82.9 | 82.9 | 83.0 | 83.2 | 83.2  | 83.2   | 83.2   | 83.2 | 83.4  |
| ≥ 3000          | 80.5                       | 82.4 | 82.9 | 83.2 | 83.6 | 83.7 | 83.9 | 84.1 | 84.1 | 84.1 | 84.3 | 84.3  | 84.3   | 84.4   | 84.4 | 84.4  |
| ≥ 2500          | 81.9                       | 83.5 | 84.0 | 84.4 | 85.0 | 85.0 | 85.3 | 85.3 | 85.3 | 85.4 | 85.7 | 85.7  | 85.8   | 85.8   | 85.9 | 86.1  |
| ≥ 2000          | 82.2                       | 84.4 | 85.1 | 85.6 | 86.3 | 86.3 | 86.7 | 87.0 | 87.1 | 87.2 | 87.4 | 87.4  | 87.5   | 87.5   | 87.6 | 87.8  |
| ≥ 1800          | 82.4                       | 84.7 | 85.5 | 86.3 | 86.7 | 86.7 | 87.0 | 87.4 | 87.5 | 87.6 | 87.9 | 87.9  | 87.9   | 88.0   | 88.0 | 88.2  |
| ≥ 1500          | 83.0                       | 85.3 | 86.1 | 86.7 | 87.4 | 87.4 | 87.8 | 88.3 | 88.3 | 88.5 | 89.0 | 89.0  | 89.0   | 89.1   | 89.1 | 89.3  |
| ≥ 1200          | 83.4                       | 85.8 | 86.6 | 87.1 | 87.9 | 88.0 | 88.5 | 89.1 | 89.2 | 89.6 | 90.0 | 90.0  | 90.0   | 90.1   | 90.2 | 90.4  |
| ≥ 1000          | 83.8                       | 86.3 | 87.2 | 88.0 | 88.9 | 88.9 | 89.5 | 90.2 | 90.4 | 90.9 | 91.3 | 91.3  | 91.3   | 91.5   | 91.6 | 91.8  |
| ≥ 900           | 84.0                       | 86.6 | 87.4 | 88.2 | 89.1 | 89.2 | 89.8 | 90.5 | 90.7 | 91.2 | 91.7 | 91.7  | 91.7   | 91.9   | 91.9 | 92.2  |
| ≥ 800           | 84.1                       | 86.8 | 87.8 | 88.6 | 89.6 | 89.6 | 90.3 | 91.2 | 91.5 | 92.0 | 92.7 | 92.8  | 93.0   | 93.1   | 93.1 | 93.4  |
| ≥ 700           | 84.4                       | 87.3 | 88.3 | 89.2 | 90.3 | 90.3 | 91.2 | 92.3 | 92.2 | 92.8 | 93.5 | 93.6  | 93.9   | 93.9   | 94.0 | 94.2  |
| ≥ 600           | 84.7                       | 87.9 | 88.9 | 89.9 | 91.0 | 91.1 | 92.1 | 92.9 | 93.2 | 93.8 | 94.4 | 94.7  | 95.0   | 95.0   | 95.2 | 95.3  |
| ≥ 500           | 84.8                       | 88.1 | 89.2 | 90.3 | 91.0 | 91.7 | 92.7 | 93.7 | 94.0 | 94.7 | 95.4 | 95.6  | 95.9   | 95.9   | 96.1 | 96.3  |
| ≥ 400           | 84.9                       | 88.2 | 89.4 | 90.6 | 92.1 | 92.2 | 93.2 | 94.5 | 94.8 | 95.7 | 96.4 | 96.6  | 97.1   | 97.2   | 97.4 | 97.6  |
| ≥ 300           | 84.9                       | 88.2 | 89.5 | 90.8 | 92.2 | 92.4 | 93.5 | 94.9 | 95.2 | 96.2 | 97.0 | 97.1  | 97.7   | 97.8   | 98.1 | 98.4  |
| ≥ 200           | 84.9                       | 88.2 | 89.5 | 90.8 | 92.3 | 92.4 | 93.6 | 95.0 | 95.2 | 96.3 | 97.2 | 97.3  | 97.9   | 98.1   | 98.4 | 98.9  |
| ≥ 100           | 84.9                       | 88.2 | 89.5 | 90.8 | 92.3 | 92.4 | 93.6 | 95.0 | 95.2 | 96.3 | 97.2 | 97.3  | 97.9   | 98.1   | 98.6 | 99.3  |
| ≥ 0             | 84.9                       | 88.2 | 89.5 | 90.8 | 92.3 | 92.4 | 93.6 | 95.0 | 95.2 | 96.3 | 97.2 | 97.3  | 97.9   | 98.2   | 98.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2167

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28701

# CEILING VERSUS VISIBILITY

93037 COLUMBIA SPRINGS COLL-PETEFOR, NC 43-50

YEARS MONTH HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |       |       |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 4/8 | ≥ 3/8 | ≥ 0  |
| NO CEILING      | 47.3                     | 50.0 | 48.0 | 48.1 | 41.2 | 48.3 | 48.3 | 40.3 | 48.3 | 46.3 | 48.3 | 48.3  | 48.3  | 48.3  | 48.3 |
| ≥ 20000         | 65.4                     | 66.3 | 66.3 | 66.0 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.3 | 66.3 | 66.3  | 66.3  | 66.3  | 66.3 |
| ≥ 18000         | 67.0                     | 68.0 | 68.0 | 68.2 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3  | 68.3  | 68.3  | 68.3 |
| ≥ 16000         | 69.7                     | 70.0 | 70.6 | 70.9 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0  | 71.0  | 71.0  | 71.0 |
| ≥ 14000         | 72.8                     | 73.6 | 74.0 | 74.2 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3  | 74.3  | 74.3  | 74.3 |
| ≥ 12000         | 75.7                     | 76.2 | 77.2 | 77.4 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5  | 77.5  | 77.5  | 77.5 |
| ≥ 10000         | 77.8                     | 78.9 | 79.1 | 79.1 | 79.4 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3  | 79.3  | 79.3  | 79.3 |
| ≥ 9000          | 78.5                     | 79.0 | 79.8 | 80.0 | 80.1 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2  | 80.2  | 80.2  | 80.2 |
| ≥ 8000          | 79.1                     | 80.2 | 80.4 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8  | 80.8  | 80.8 |
| ≥ 7000          | 79.9                     | 81.1 | 81.2 | 81.5 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7  | 81.7  | 81.7 |
| ≥ 6000          | 81.3                     | 82.3 | 82.7 | 83.0 | 83.1 | 83.1 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2  | 83.2  | 83.2  | 83.2 |
| ≥ 5000          | 82.3                     | 83.8 | 84.0 | 84.2 | 84.3 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4  | 84.4  | 84.4 |
| ≥ 4500          | 82.9                     | 84.2 | 84.4 | 84.6 | 84.7 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8  | 84.8  | 84.8 |
| ≥ 4000          | 83.3                     | 84.6 | 85.1 | 85.4 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  | 85.5  | 85.5  | 85.5 |
| ≥ 3500          | 84.0                     | 85.4 | 85.7 | 86.0 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2  | 86.2  | 86.2 |
| ≥ 3000          | 84.4                     | 86.3 | 86.5 | 86.9 | 87.0 | 87.1 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2  | 87.2  | 87.2  | 87.2 |
| ≥ 2500          | 85.2                     | 87.1 | 87.4 | 87.8 | 88.0 | 88.1 | 88.2 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4  | 88.4  | 88.4  | 88.4 |
| ≥ 2000          | 86.1                     | 88.2 | 88.4 | 88.9 | 89.1 | 89.3 | 89.3 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  | 89.8  | 89.8  | 89.8 |
| ≥ 1800          | 86.9                     | 88.4 | 88.7 | 89.3 | 89.5 | 89.6 | 89.6 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0  | 90.0  | 90.0 |
| ≥ 1500          | 87.0                     | 89.3 | 89.7 | 90.3 | 90.5 | 90.7 | 91.2 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6  | 91.6  | 91.6  | 91.6 |
| ≥ 1200          | 87.3                     | 90.1 | 90.5 | 91.1 | 91.4 | 91.6 | 92.2 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  | 92.6 |
| ≥ 1000          | 88.0                     | 90.6 | 91.1 | 91.7 | 92.1 | 92.3 | 93.1 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5  | 93.5  | 93.5 |
| ≥ 900           | 88.2                     | 91.0 | 91.6 | 92.3 | 92.6 | 92.8 | 93.6 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1  | 94.1  | 94.1 |
| ≥ 800           | 88.3                     | 91.2 | 91.9 | 92.6 | 93.3 | 93.5 | 94.4 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0  | 95.0  | 95.0 |
| ≥ 700           | 88.4                     | 91.7 | 92.3 | 93.0 | 93.8 | 94.1 | 94.9 | 95.6 | 95.7 | 95.7 | 95.7 | 95.7  | 95.7  | 95.7  | 95.7 |
| ≥ 600           | 88.8                     | 92.1 | 92.8 | 93.9 | 94.7 | 95.0 | 96.0 | 96.7 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8  | 96.8  | 96.8 |
| ≥ 500           | 89.0                     | 92.3 | 93.0 | 94.2 | 95.0 | 95.3 | 96.4 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3  | 97.3  | 97.3 |
| ≥ 400           | 89.1                     | 92.4 | 93.2 | 94.3 | 95.3 | 95.6 | 96.8 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6 |
| ≥ 300           | 89.1                     | 92.4 | 93.2 | 94.3 | 95.3 | 95.6 | 96.8 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6 |
| ≥ 200           | 89.1                     | 92.4 | 93.2 | 94.3 | 95.3 | 95.6 | 96.8 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6 |
| ≥ 100           | 89.1                     | 92.4 | 93.2 | 94.3 | 95.3 | 95.6 | 96.8 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6 |
| ≥ 0             | 89.1                     | 92.4 | 93.2 | 94.3 | 95.3 | 95.6 | 96.8 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6 |

TOTAL NUMBER OF OBSERVATIONS 2149

5

DATA PROCESSING DIVISION  
ETAC, 1964  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

95037  
STATION

COLUMBIA SPRINGS CLIC-PETERSON F.S.  
STATION NAME

4-3-64  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12.00  
HOURS (L.S.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 18000              | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 16000              | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 14000              | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 12000              | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 10000              | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 9000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 8000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 7000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 6000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 5000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 4500               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 4000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 3500               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 3000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 2500               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 2000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 1800               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 1500               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 1200               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 1000               | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 900                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 800                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 700                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 600                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 500                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 400                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 300                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 200                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 100                | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |
| IV 0                  | 42.7                       | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3   | 42.3 | 42.3 |

TOTAL NUMBER OF OBSERVATIONS 2169

DATA FROM THE DIVISION  
ETAC, 1954  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLLEGE SPRINGS LIGHTHOUSE, N. C.  
STATION NAME

43-0

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10-17-50  
MOON ILLUM.

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ 0  |
| NO CEILING      | 39.7                       | 39.7 | 39.2 | 39.2 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3  | 39.3 | 39.3  | 39.3 |
| ≥ 20000         | 55.5                       | 55.7 | 55.9 | 56.0 | 56.0 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1  | 56.1 | 56.1  | 56.1 |
| ≥ 18000         | 57.9                       | 57.5 | 57.4 | 57.5 | 57.5 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6  | 57.6 | 57.6  | 57.6 |
| ≥ 16000         | 59.7                       | 59.2 | 60.1 | 60.1 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2  | 60.2 | 60.2  | 60.2 |
| ≥ 14000         | 63.2                       | 63.5 | 63.7 | 63.7 | 63.5 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9  | 63.9 | 63.9  | 63.9 |
| ≥ 12000         | 64.5                       | 67.1 | 67.3 | 67.3 | 67.4 | 67.5 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6  | 67.6 | 67.6  | 67.6 |
| ≥ 10000         | 68.8                       | 69.1 | 69.3 | 69.3 | 69.4 | 69.5 | 69.5 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6  | 69.6 | 69.6  | 69.6 |
| ≥ 9000          | 69.7                       | 70.2 | 70.4 | 70.4 | 70.6 | 70.7 | 70.8 | 70.8 | 70.8 | 70.8 | 70.8 | 70.8  | 70.8 | 70.8  | 70.8 |
| ≥ 8000          | 71.0                       | 72.1 | 72.3 | 72.4 | 72.5 | 72.6 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7 | 72.7  | 72.7 | 72.7  | 72.7 |
| ≥ 7000          | 74.6                       | 75.0 | 75.3 | 75.4 | 75.5 | 75.7 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8  | 75.8 | 75.8  | 75.8 |
| ≥ 6000          | 78.0                       | 78.4 | 78.7 | 78.8 | 79.0 | 79.1 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2  | 79.2 | 79.2  | 79.2 |
| ≥ 5000          | 80.5                       | 81.3 | 81.7 | 81.8 | 82.0 | 82.1 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2  | 82.2 | 82.2  | 82.2 |
| ≥ 4500          | 82.9                       | 83.6 | 84.0 | 84.1 | 84.3 | 84.5 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6  | 84.6 |
| ≥ 4000          | 84.9                       | 85.2 | 85.4 | 85.5 | 85.7 | 85.8 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9  | 85.9 |
| ≥ 3500          | 86.4                       | 86.9 | 87.0 | 87.1 | 87.4 | 87.6 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7  | 87.7 | 87.7  | 87.7 |
| ≥ 3000          | 87.3                       | 87.6 | 87.8 | 87.8 | 88.0 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2  | 88.2 |
| ≥ 2500          | 88.4                       | 88.7 | 88.8 | 88.8 | 89.0 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1  | 89.1 | 89.1  | 89.1 |
| ≥ 2000          | 89.5                       | 89.6 | 89.7 | 89.7 | 90.0 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1  | 90.1 |
| ≥ 1800          | 90.3                       | 90.3 | 90.3 | 90.3 | 90.5 | 90.7 | 91.1 | 91.3 | 91.3 | 91.3 | 91.4 | 91.4  | 91.4 | 91.4  | 91.4 |
| ≥ 1600          | 90.6                       | 90.6 | 90.6 | 90.6 | 90.8 | 91.0 | 91.5 | 91.7 | 92.1 | 92.3 | 92.3 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 1400          | 91.0                       | 91.0 | 91.0 | 91.0 | 91.2 | 91.5 | 91.7 | 92.1 | 92.3 | 92.3 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 1200          | 91.3                       | 91.3 | 91.3 | 91.3 | 91.5 | 91.7 | 92.1 | 92.3 | 92.3 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 1000          | 91.6                       | 91.6 | 91.6 | 91.6 | 91.8 | 92.0 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 900           | 91.9                       | 91.9 | 91.9 | 91.9 | 92.1 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 800           | 92.1                       | 92.1 | 92.1 | 92.1 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 700           | 92.3                       | 92.3 | 92.3 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 600           | 92.5                       | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 500           | 92.7                       | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7  | 92.7 |
| ≥ 400           | 92.9                       | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9 |
| ≥ 300           | 93.1                       | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1 | 93.1  | 93.1 |
| ≥ 200           | 93.3                       | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 |
| ≥ 100           | 93.5                       | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 |
| ≥ 0             | 93.7                       | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7  | 93.7 |

TOTAL NUMBER OF OBSERVATIONS

2109

DATA PROCESSING DIVISION  
ETAC, USAF  
KNOXVILLE, TENN. 37604

# CEILING VERSUS VISIBILITY

93017  
STATION

COLORADO SPRINGS (D) - PETERSON, 11  
STATION NO.

4-7

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENTAGE  
HOURS IN DAY

| CEILING<br>(Feet) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |       |        |       |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|-------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 1/2 | ≥ 3/16 | ≥ 1/4 | ≥ 0  |
| NO CEILING        | 49.5                       | 50.0 | 50.2 | 50.4 | 50.4 | 50.4 | 50.4 | 50.5 | 50.5 | 50.5 | 50.5 | 50.5  | 50.5  | 50.5   | 50.5  | 50.5 |
| ≥ 20000           | 67.7                       | 63.3 | 63.5 | 64.7 | 63.7 | 63.7 | 63.8 | 63.8 | 63.8 | 63.9 | 64.7 | 63.7  | 63.7  | 63.7   | 64.7  | 64.9 |
| ≥ 18000           | 63.0                       | 64.3 | 64.5 | 64.7 | 64.7 | 64.7 | 64.8 | 64.8 | 64.8 | 64.8 | 64.9 | 64.9  | 64.9  | 64.9   | 64.9  | 64.9 |
| ≥ 16000           | 65.5                       | 60.2 | 60.7 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 61.7 | 61.7  | 61.7  | 61.7   | 61.7  | 61.7 |
| ≥ 14000           | 68.2                       | 59.0 | 59.1 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4  | 59.4  | 59.4   | 59.4  | 59.4 |
| ≥ 12000           | 72.9                       | 71.7 | 71.9 | 72.1 | 72.1 | 72.1 | 72.2 | 72.2 | 72.2 | 72.2 | 72.3 | 72.3  | 72.3  | 72.3   | 72.3  | 72.3 |
| ≥ 10000           | 73.4                       | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.6 | 74.6  | 74.6  | 74.6   | 74.6  | 74.6 |
| ≥ 9000            | 74.3                       | 75.4 | 75.3 | 75.5 | 75.5 | 75.5 | 75.6 | 75.6 | 75.6 | 75.6 | 75.7 | 75.7  | 75.7  | 75.7   | 75.7  | 75.7 |
| ≥ 8000            | 75.0                       | 76.0 | 76.8 | 77.0 | 77.0 | 77.0 | 77.1 | 77.1 | 77.1 | 77.1 | 77.2 | 77.2  | 77.2  | 77.2   | 77.2  | 77.2 |
| ≥ 7000            | 77.3                       | 78.4 | 78.3 | 78.5 | 78.5 | 78.5 | 78.6 | 78.6 | 78.6 | 78.7 | 78.7 | 78.8  | 78.8  | 78.8   | 78.8  | 78.8 |
| ≥ 6000            | 78.9                       | 79.9 | 80.1 | 80.4 | 80.4 | 80.4 | 80.5 | 80.5 | 80.5 | 80.6 | 80.6 | 80.7  | 80.7  | 80.7   | 80.7  | 80.7 |
| ≥ 5000            | 80.3                       | 81.5 | 81.7 | 82.0 | 82.1 | 82.1 | 82.2 | 82.2 | 82.2 | 82.3 | 82.3 | 82.4  | 82.4  | 82.4   | 82.4  | 82.4 |
| ≥ 4500            | 81.0                       | 82.2 | 82.4 | 82.7 | 82.8 | 82.8 | 82.9 | 82.9 | 82.9 | 83.0 | 83.1 | 83.1  | 83.1  | 83.1   | 83.1  | 83.1 |
| ≥ 4000            | 81.7                       | 83.0 | 83.2 | 83.5 | 83.5 | 83.6 | 83.7 | 83.7 | 83.7 | 83.8 | 83.9 | 83.9  | 83.9  | 83.9   | 83.9  | 83.9 |
| ≥ 3500            | 82.5                       | 84.2 | 84.4 | 84.8 | 84.8 | 84.9 | 85.0 | 85.0 | 85.0 | 85.1 | 85.2 | 85.2  | 85.2  | 85.2   | 85.2  | 85.2 |
| ≥ 3000            | 83.9                       | 85.5 | 85.9 | 86.3 | 86.3 | 86.4 | 86.5 | 86.5 | 86.5 | 86.6 | 86.7 | 86.7  | 86.7  | 86.7   | 86.7  | 86.7 |
| ≥ 2500            | 84.6                       | 86.7 | 87.1 | 87.7 | 87.8 | 87.9 | 88.1 | 88.2 | 88.2 | 88.3 | 88.3 | 88.3  | 88.3  | 88.3   | 88.3  | 88.3 |
| ≥ 2000            | 85.3                       | 88.2 | 88.7 | 89.5 | 89.5 | 89.7 | 89.9 | 90.1 | 90.1 | 90.1 | 90.2 | 90.2  | 90.2  | 90.2   | 90.2  | 90.2 |
| ≥ 1800            | 85.9                       | 88.2 | 88.8 | 89.7 | 89.7 | 89.9 | 90.3 | 90.4 | 90.4 | 90.4 | 90.5 | 90.5  | 90.5  | 90.5   | 90.5  | 90.5 |
| ≥ 1500            | 86.6                       | 89.2 | 90.0 | 91.1 | 91.2 | 91.4 | 91.9 | 92.1 | 92.2 | 92.2 | 92.3 | 92.3  | 92.3  | 92.3   | 92.3  | 92.3 |
| ≥ 1200            | 86.9                       | 89.7 | 90.6 | 91.7 | 92.0 | 92.1 | 92.7 | 92.9 | 93.0 | 93.3 | 93.4 | 93.4  | 93.5  | 93.5   | 93.5  | 93.5 |
| ≥ 1000            | 87.0                       | 90.1 | 91.0 | 92.3 | 92.6 | 92.7 | 93.5 | 93.7 | 93.7 | 94.0 | 94.4 | 94.4  | 94.4  | 94.4   | 94.5  | 94.5 |
| ≥ 900             | 87.1                       | 90.2 | 91.2 | 92.5 | 92.8 | 92.9 | 93.7 | 94.0 | 94.0 | 94.4 | 94.8 | 94.8  | 94.9  | 94.9   | 94.9  | 95.0 |
| ≥ 800             | 87.1                       | 90.3 | 91.3 | 92.7 | 93.0 | 93.1 | 93.9 | 94.2 | 94.3 | 94.7 | 95.2 | 95.2  | 95.3  | 95.3   | 95.3  | 95.4 |
| ≥ 700             | 87.2                       | 90.7 | 91.7 | 93.1 | 93.6 | 93.8 | 94.8 | 95.2 | 95.3 | 95.8 | 96.3 | 96.4  | 96.4  | 96.4   | 96.5  | 96.6 |
| ≥ 600             | 87.4                       | 90.9 | 92.0 | 93.5 | 94.1 | 94.2 | 95.2 | 95.8 | 95.5 | 96.3 | 97.0 | 97.1  | 97.2  | 97.2   | 97.3  | 97.4 |
| ≥ 500             | 87.5                       | 91.0 | 92.2 | 93.8 | 94.4 | 94.5 | 95.6 | 96.2 | 96.3 | 97.0 | 97.6 | 97.7  | 97.9  | 98.0   | 98.2  | 98.2 |
| ≥ 400             | 87.6                       | 91.1 | 92.4 | 93.9 | 94.6 | 94.7 | 95.8 | 96.5 | 96.6 | 97.2 | 97.8 | 97.9  | 98.3  | 98.4   | 98.6  | 98.6 |
| ≥ 300             | 87.6                       | 91.1 | 92.4 | 93.9 | 94.6 | 94.7 | 95.8 | 96.5 | 96.6 | 97.2 | 97.8 | 97.9  | 98.3  | 98.4   | 98.6  | 98.6 |
| ≥ 200             | 87.6                       | 91.1 | 92.4 | 93.9 | 94.6 | 94.7 | 95.8 | 96.5 | 96.6 | 97.2 | 97.8 | 97.9  | 98.3  | 98.4   | 98.6  | 98.6 |
| ≥ 100             | 87.6                       | 91.1 | 92.4 | 93.9 | 94.6 | 94.7 | 95.8 | 96.5 | 96.6 | 97.2 | 97.8 | 97.9  | 98.3  | 98.4   | 98.6  | 98.6 |
| ≥ 0               | 87.6                       | 91.1 | 92.4 | 93.9 | 94.6 | 94.7 | 95.8 | 96.5 | 96.6 | 97.2 | 97.8 | 97.9  | 98.3  | 98.4   | 98.6  | 98.6 |

TOTAL NUMBER OF OBSERVATIONS 2145

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037 CALKADU SPRINGS COLO-PETERSON FLD 43-6 YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21.0-73.0  
HOURS (L.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ⅜  | ≥ ⅓  | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 58.2                       | 58.6 | 58.8 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 |
| ≥ 18000               | 57.2                       | 57.2 | 57.2 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| ≥ 16000               | 56.7                       | 56.7 | 56.7 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 |
| ≥ 14000               | 70.0                       | 71.3 | 71.8 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 |
| ≥ 12000               | 72.1                       | 72.1 | 72.1 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 |
| ≥ 10000               | 74.3                       | 75.1 | 75.1 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 |
| ≥ 9000                | 74.3                       | 75.3 | 75.3 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 |
| ≥ 8000                | 75.3                       | 76.4 | 76.4 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 |
| ≥ 7000                | 75.8                       | 76.4 | 76.4 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 |
| ≥ 6000                | 77.1                       | 78.4 | 78.4 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 |
| ≥ 5000                | 78.3                       | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 |
| ≥ 4500                | 80.2                       | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 |
| ≥ 4000                | 81.2                       | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 |
| ≥ 3500                | 82.0                       | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 |
| ≥ 3000                | 82.0                       | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 |
| ≥ 2500                | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 2000                | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 1800                | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 1500                | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 1200                | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 1000                | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 900                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 800                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 700                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 600                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 500                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 400                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 300                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 200                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 100                 | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |
| ≥ 0                   | 83.0                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 |

TOTAL NUMBER OF OBSERVATIONS 2145

DATA PROCESSING DIVISION  
ETAC, USAF  
KSNBVILLE, MISSOURI

# CEILING VERSUS VISIBILITY

93017 COLUMBIA SPRINGS GUN-DETROIT, MI

4301

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF  
OBSERVATIONS

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |              |              |              |              |              |              |              |              |              |              |              |              |              |                |                |
|-----------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|
|                       | ≥ 10                       | ≥ 6          | ≥ 5          | ≥ 4          | ≥ 3          | ≥ 2½         | ≥ 2          | ≥ 1½         | ≥ 1¼         | ≥ 1          | ≥ ¾          | ≥ 5/8        | ≥ ½          | ≥ 3/8        | ≥ 1/4          | ≥ 0            |
| NO. FLYING<br>≥ 20000 | 50.5<br>53.5               | 51.0<br>54.1 | 51.0<br>54.2 | 51.1<br>54.4 | 51.2<br>54.6 | 51.2<br>54.5 | 51.2<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5 | 51.3<br>54.5   | 51.3<br>54.5   |
| ≥ 18000               | 54.3<br>56.5               | 55.4<br>57.2 | 55.3<br>57.3 | 55.4<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5 | 55.5<br>57.5   | 55.5<br>57.5   |
| ≥ 14000               | 59.7<br>61.9               | 60.7<br>62.9 | 60.6<br>62.7 | 60.6<br>62.9 | 60.7<br>63.0 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1 | 60.7<br>63.1   | 60.7<br>63.1   |
| ≥ 10000               | 73.5<br>74.4               | 74.5<br>75.5 | 74.7<br>75.3 | 74.6<br>75.5 | 74.9<br>75.6 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7 | 75.0<br>75.7   | 75.0<br>75.7   |
| ≥ 8000                | 75.3<br>76.5               | 76.4<br>77.4 | 76.3<br>77.5 | 76.3<br>77.7 | 76.6<br>77.8 | 76.7<br>77.9 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0 | 76.7<br>78.0   | 76.7<br>78.0   |
| ≥ 6000                | 78.2<br>79.5               | 79.1<br>80.9 | 79.2<br>80.7 | 79.4<br>80.9 | 79.6<br>81.1 | 79.6<br>81.2 | 79.7<br>81.2 | 79.7<br>81.3 | 79.7<br>81.3 | 79.7<br>81.3 | 79.7<br>81.3 | 79.7<br>81.3 | 79.7<br>81.3 | 79.7<br>81.3 | 79.7<br>81.3   | 79.7<br>81.3   |
| ≥ 4500                | 80.2<br>80.9               | 81.2<br>82.0 | 81.2<br>82.2 | 81.5<br>82.4 | 81.6<br>82.6 | 81.6<br>82.7 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8 | 81.9<br>82.8   | 81.9<br>82.8   |
| ≥ 3500                | 81.7<br>82.5               | 82.6<br>83.9 | 83.1<br>84.2 | 83.4<br>84.6 | 83.5<br>84.6 | 83.6<br>84.9 | 83.7<br>85.0 | 83.7<br>85.1 | 83.7<br>85.1 | 83.7<br>85.1 | 83.7<br>85.1 | 83.7<br>85.1 | 83.7<br>85.1 | 83.7<br>85.1 | 83.7<br>85.1   | 83.7<br>85.1   |
| ≥ 2500                | 83.4<br>84.4               | 85.0<br>86.2 | 85.4<br>86.7 | 85.8<br>87.3 | 86.1<br>87.7 | 86.2<br>87.8 | 86.4<br>88.0 | 86.5<br>88.2 | 86.5<br>88.2 | 86.5<br>88.2 | 86.5<br>88.2 | 86.5<br>88.2 | 86.5<br>88.2 | 86.5<br>88.2 | 86.5<br>88.2   | 86.5<br>88.2   |
| ≥ 1800                | 84.7<br>85.4               | 86.2<br>87.4 | 86.7<br>87.7 | 87.0<br>88.2 | 87.7<br>88.7 | 88.1<br>89.2 | 88.3<br>89.4 | 88.6<br>89.7 | 88.7<br>89.8 | 88.7<br>89.8 | 88.7<br>89.8 | 88.7<br>89.8 | 88.7<br>89.8 | 88.7<br>89.8 | 88.7<br>89.8   | 88.7<br>89.8   |
| ≥ 1500                | 85.4<br>86.2               | 87.4<br>88.5 | 87.7<br>89.3 | 88.2<br>90.2 | 88.7<br>90.9 | 89.1<br>91.0 | 89.4<br>91.7 | 89.7<br>92.1 | 89.8<br>92.1 | 89.8<br>92.1 | 89.8<br>92.1 | 89.8<br>92.1 | 89.8<br>92.1 | 89.8<br>92.1 | 89.8<br>92.1   | 89.8<br>92.1   |
| ≥ 1200                | 86.2<br>86.6               | 88.5<br>89.1 | 89.3<br>89.9 | 90.2<br>90.9 | 90.9<br>91.7 | 91.2<br>91.7 | 91.4<br>91.7 | 91.7<br>92.7 | 92.1<br>92.7 | 92.5<br>93.2 | 92.9<br>93.2 | 93.2<br>93.7 | 93.2<br>94.1 | 93.4<br>94.1 | 93.4<br>94.4   | 93.4<br>94.4   |
| ≥ 900                 | 86.6<br>86.7               | 89.1<br>89.4 | 89.9<br>90.2 | 90.9<br>91.3 | 91.7<br>92.1 | 91.7<br>92.3 | 91.7<br>93.1 | 92.7<br>93.7 | 93.2<br>93.8 | 93.2<br>94.3 | 93.2<br>94.5 | 93.7<br>95.1 | 94.1<br>95.7 | 94.4<br>96.0 | 94.4<br>96.0   | 94.4<br>96.2   |
| ≥ 700                 | 86.7<br>86.4               | 89.4<br>89.8 | 90.2<br>90.7 | 91.3<br>91.8 | 92.1<br>92.6 | 92.3<br>92.9 | 93.1<br>93.8 | 93.7<br>94.4 | 93.8<br>94.5 | 94.3<br>95.1 | 94.3<br>95.7 | 94.8<br>96.0 | 95.1<br>96.7 | 95.1<br>97.0 | 95.2<br>97.7   | 95.2<br>97.9   |
| ≥ 600                 | 86.4<br>87.1               | 89.8<br>90.0 | 90.7<br>91.0 | 91.8<br>92.2 | 92.6<br>93.1 | 92.9<br>93.3 | 93.8<br>94.3 | 94.4<br>95.0 | 94.5<br>95.6 | 95.1<br>96.4 | 95.7<br>97.1 | 96.0<br>97.5 | 96.7<br>98.2 | 97.0<br>98.7 | 97.7<br>99.1   | 97.9<br>99.5   |
| ≥ 500                 | 87.1<br>87.2               | 90.0<br>90.2 | 91.0<br>91.2 | 92.2<br>92.5 | 93.1<br>93.5 | 93.3<br>93.7 | 94.3<br>94.7 | 95.0<br>95.5 | 95.6<br>96.4 | 96.4<br>97.1 | 97.1<br>97.2 | 97.5<br>97.7 | 98.2<br>98.7 | 98.7<br>99.3 | 99.1<br>99.6   | 99.5<br>100.0  |
| ≥ 400                 | 87.2<br>87.3               | 90.2<br>90.3 | 91.2<br>91.4 | 92.5<br>92.8 | 93.5<br>93.8 | 93.7<br>94.0 | 94.7<br>95.1 | 95.5<br>96.0 | 96.4<br>96.8 | 97.1<br>97.6 | 97.2<br>97.9 | 97.7<br>98.5 | 98.7<br>99.3 | 99.3<br>99.9 | 99.6<br>100.0  | 100.0<br>100.0 |
| ≥ 300                 | 87.3<br>87.3               | 90.3<br>90.4 | 91.4<br>91.4 | 92.8<br>92.8 | 93.8<br>93.8 | 94.0<br>94.1 | 95.1<br>95.1 | 96.0<br>96.0 | 96.8<br>96.8 | 97.6<br>97.6 | 97.9<br>97.9 | 98.5<br>98.5 | 99.3<br>99.3 | 99.9<br>99.9 | 100.0<br>100.0 | 100.0<br>100.0 |
| ≥ 200                 | 87.3<br>87.3               | 90.4<br>90.4 | 91.4<br>91.4 | 92.8<br>92.8 | 93.8<br>93.8 | 94.1<br>94.1 | 95.1<br>95.1 | 96.0<br>96.0 | 96.8<br>96.8 | 97.6<br>97.6 | 97.9<br>97.9 | 98.5<br>98.5 | 99.3<br>99.3 | 99.9<br>99.9 | 100.0<br>100.0 | 100.0<br>100.0 |
| ≥ 100                 | 87.3<br>87.3               | 90.4<br>90.4 | 91.4<br>91.4 | 92.8<br>92.8 | 93.8<br>93.8 | 94.1<br>94.1 | 95.1<br>95.1 | 96.0<br>96.0 | 96.8<br>96.8 | 97.6<br>97.6 | 97.9<br>97.9 | 98.5<br>98.5 | 99.3<br>99.3 | 99.9<br>99.9 | 100.0<br>100.0 | 100.0<br>100.0 |
| ≥ 0                   | 87.3<br>87.3               | 90.4<br>90.4 | 91.4<br>91.4 | 92.8<br>92.8 | 93.8<br>93.8 | 94.1<br>94.1 | 95.1<br>95.1 | 96.0<br>96.0 | 96.8<br>96.8 | 97.6<br>97.6 | 97.9<br>97.9 | 98.5<br>98.5 | 99.3<br>99.3 | 99.9<br>99.9 | 100.0<br>100.0 | 100.0<br>100.0 |

TOTAL NUMBER OF OBSERVATIONS 17266

DATA PROCESSING DIV.  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

CLINTON SPRINGS MILITARY-PETERSON F.  
STATION NAME

43-4753-55

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

24 HOURS  
PERCENT

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING      | 58.0                       | 54.2 | 52.2 | 53.2 | 53.1 | 59.3 | 59.1 | 54.3 | 59.1 | 59.3 | 59.4 | 59.3  | 59.3 | 53.4   | 59.1 | 53.4 |
| ≥ 20000         | 66.2                       | 66.2 | 66.2 | 66.2 | 66.3 | 66.3 | 66.3 | 66.3 | 66.3 | 66.6 | 66.6 | 66.6  | 66.6 | 66.6   | 66.6 | 66.6 |
| ≥ 18000         | 66.8                       | 67.1 | 67.1 | 67.1 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2  | 67.2 | 67.2   | 67.2 | 67.2 |
| ≥ 16000         | 67.7                       | 68.0 | 68.0 | 68.2 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1  | 68.1 | 68.2   | 68.2 | 68.2 |
| ≥ 14000         | 69.0                       | 69.9 | 69.9 | 69.9 | 70.0 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1  | 70.1 | 70.2   | 70.2 | 70.2 |
| ≥ 12000         | 71.9                       | 72.2 | 72.2 | 72.2 | 72.3 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4  | 72.4 | 72.4   | 72.4 | 72.4 |
| ≥ 10000         | 72.9                       | 73.3 | 73.3 | 73.3 | 73.3 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4  | 73.4 | 73.4   | 73.4 | 73.4 |
| ≥ 9000          | 73.2                       | 73.6 | 73.6 | 73.6 | 73.6 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7  | 73.7 | 73.7   | 73.7 | 73.7 |
| ≥ 8000          | 74.2                       | 74.5 | 74.5 | 74.5 | 74.6 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7   | 74.7 | 74.7 |
| ≥ 7000          | 75.2                       | 75.5 | 75.5 | 75.5 | 75.6 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7  | 75.7 | 75.7   | 75.7 | 75.7 |
| ≥ 6000          | 76.7                       | 76.3 | 76.3 | 76.3 | 76.4 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5  | 76.5 | 76.5   | 76.5 | 76.5 |
| ≥ 5000          | 77.4                       | 77.8 | 77.8 | 77.8 | 77.8 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9  | 77.9 | 77.9   | 77.9 | 77.9 |
| ≥ 4500          | 78.3                       | 78.8 | 78.8 | 78.8 | 78.9 | 79.0 | 79.0 | 79.0 | 79.0 | 79.1 | 79.1 | 79.1  | 79.1 | 79.1   | 79.1 | 79.1 |
| ≥ 4000          | 79.4                       | 79.9 | 79.9 | 80.0 | 80.0 | 80.1 | 80.1 | 80.1 | 80.1 | 80.2 | 80.2 | 80.2  | 80.2 | 80.2   | 80.2 | 80.2 |
| ≥ 3500          | 80.2                       | 80.9 | 80.9 | 81.0 | 81.1 | 81.2 | 81.2 | 81.2 | 81.2 | 81.3 | 81.3 | 81.3  | 81.3 | 81.4   | 81.4 | 81.4 |
| ≥ 3000          | 81.4                       | 82.1 | 82.3 | 82.4 | 82.5 | 82.6 | 82.7 | 82.7 | 82.7 | 82.8 | 82.8 | 82.8  | 82.8 | 82.9   | 82.9 | 82.9 |
| ≥ 2500          | 82.4                       | 83.4 | 83.7 | 84.0 | 84.1 | 84.4 | 84.6 | 84.6 | 84.6 | 84.7 | 84.7 | 84.7  | 84.7 | 84.7   | 84.7 | 84.7 |
| ≥ 2000          | 83.9                       | 85.0 | 85.4 | 85.7 | 86.2 | 86.3 | 86.6 | 86.7 | 86.7 | 86.8 | 86.8 | 86.8  | 86.8 | 86.9   | 86.9 | 86.9 |
| ≥ 1800          | 84.2                       | 85.3 | 85.8 | 86.1 | 86.6 | 86.7 | 87.0 | 87.2 | 87.2 | 87.3 | 87.3 | 87.3  | 87.3 | 87.4   | 87.4 | 87.4 |
| ≥ 1500          | 85.1                       | 86.4 | 86.8 | 87.2 | 87.7 | 87.9 | 88.3 | 88.5 | 88.5 | 88.7 | 88.7 | 88.7  | 88.7 | 88.7   | 88.7 | 88.7 |
| ≥ 1200          | 86.1                       | 87.3 | 88.0 | 88.4 | 89.1 | 89.2 | 89.7 | 89.9 | 89.9 | 90.2 | 90.2 | 90.2  | 90.2 | 90.3   | 90.3 | 90.3 |
| ≥ 1000          | 86.7                       | 88.3 | 88.8 | 89.1 | 89.8 | 90.0 | 90.5 | 90.9 | 90.9 | 91.3 | 91.4 | 91.4  | 91.4 | 91.5   | 91.5 | 91.5 |
| ≥ 900           | 87.1                       | 88.7 | 89.2 | 89.3 | 90.3 | 90.4 | 91.0 | 91.3 | 91.3 | 92.0 | 92.0 | 92.0  | 92.0 | 92.1   | 92.1 | 92.1 |
| ≥ 800           | 87.3                       | 88.9 | 89.4 | 89.6 | 90.5 | 90.7 | 91.3 | 91.7 | 91.7 | 92.5 | 92.5 | 92.5  | 92.5 | 92.6   | 92.6 | 92.6 |
| ≥ 700           | 87.5                       | 89.2 | 89.8 | 90.1 | 90.9 | 91.0 | 91.7 | 92.0 | 92.0 | 92.9 | 93.1 | 93.1  | 93.1 | 93.1   | 93.1 | 93.1 |
| ≥ 600           | 87.9                       | 89.7 | 90.2 | 90.6 | 91.4 | 91.5 | 92.2 | 92.6 | 92.6 | 93.6 | 93.7 | 93.7  | 93.7 | 93.9   | 93.9 | 93.9 |
| ≥ 500           | 88.2                       | 90.3 | 90.9 | 91.3 | 92.0 | 92.2 | 93.2 | 93.6 | 93.6 | 94.6 | 94.8 | 94.8  | 94.8 | 95.0   | 95.0 | 95.0 |
| ≥ 400           | 88.3                       | 90.4 | 91.1 | 91.6 | 92.3 | 92.5 | 93.5 | 93.9 | 93.9 | 95.0 | 95.2 | 95.2  | 95.2 | 95.4   | 95.4 | 95.4 |
| ≥ 300           | 88.4                       | 90.6 | 91.3 | 92.0 | 92.7 | 92.9 | 94.0 | 94.4 | 94.4 | 95.5 | 95.7 | 95.7  | 95.7 | 96.1   | 96.1 | 96.1 |
| ≥ 200           | 88.4                       | 90.7 | 91.5 | 92.2 | 93.1 | 93.2 | 94.5 | 94.9 | 94.9 | 96.2 | 96.4 | 96.4  | 96.4 | 97.1   | 97.2 | 97.2 |
| ≥ 100           | 88.4                       | 90.7 | 91.5 | 92.2 | 93.1 | 93.2 | 94.5 | 94.9 | 94.9 | 96.2 | 96.4 | 96.4  | 96.4 | 97.1   | 97.2 | 97.2 |
| ≥ 0             | 88.4                       | 90.7 | 91.5 | 92.2 | 93.1 | 93.2 | 94.5 | 94.9 | 94.9 | 96.2 | 96.4 | 96.4  | 96.4 | 97.1   | 97.2 | 97.2 |

TOTAL NUMBER OF OBSERVATIONS

2003

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLUMBIA SPRINGS CILG-PCYB50, 50

93-97-99-00

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6330-00-0  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0   |
| NO CEILING        | 57.7                       | 50.5 | 58.0 | 50.5 | 54.6 | 58.0 | 58.6 | 51.0 | 54.6 | 58.0 | 56.7 | 58.0  | 57.0 | 58.0   | 57.7 | 50.5  |
| ≥ 20000           | 66.7                       | 67.2 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6  | 67.6 | 67.6   | 67.6 | 67.6  |
| ≥ 18000           | 67.5                       | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3  | 68.3 | 68.3   | 68.3 | 68.3  |
| ≥ 16000           | 68.8                       | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7  | 69.7 | 69.7   | 69.7 | 69.7  |
| ≥ 14000           | 71.0                       | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8  | 71.8 | 71.8   | 71.8 | 71.8  |
| ≥ 12000           | 73.8                       | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6  | 74.6 | 74.6   | 74.6 | 74.6  |
| ≥ 10000           | 75.0                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5   | 75.5 | 75.5  |
| ≥ 9000            | 75.1                       | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9  | 75.9 | 75.9   | 75.9 | 75.9  |
| ≥ 8000            | 75.5                       | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5  | 76.5 | 76.5   | 76.5 | 76.5  |
| ≥ 7000            | 75.3                       | 77.1 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2  | 77.2 | 77.2   | 77.2 | 77.2  |
| ≥ 6000            | 77.0                       | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9  | 77.9 | 77.9   | 77.9 | 77.9  |
| ≥ 5000            | 77.7                       | 78.6 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7  | 78.7 | 78.7   | 78.7 | 78.7  |
| ≥ 4500            | 78.1                       | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0  | 79.0 | 79.0   | 79.0 | 79.0  |
| ≥ 4000            | 79.0                       | 79.9 | 80.0 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1  | 80.1 | 80.1   | 80.1 | 80.1  |
| ≥ 3500            | 79.8                       | 80.9 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1 | 81.1   | 81.1 | 81.1  |
| ≥ 3000            | 81.0                       | 82.2 | 82.3 | 82.5 | 82.7 | 82.7 | 82.7 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  | 82.8 | 82.8   | 82.8 | 82.8  |
| ≥ 2500            | 82.1                       | 83.3 | 83.4 | 83.7 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1   | 84.1 | 84.1  |
| ≥ 2000            | 83.2                       | 84.5 | 84.8 | 85.2 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.7 | 85.7 | 85.7  | 85.7 | 85.7   | 85.7 | 85.7  |
| ≥ 1800            | 83.0                       | 85.0 | 85.2 | 85.7 | 85.9 | 85.9 | 86.0 | 86.1 | 86.1 | 86.2 | 86.2 | 86.2  | 86.2 | 86.2   | 86.2 | 86.2  |
| ≥ 1500            | 84.1                       | 85.9 | 86.1 | 86.7 | 87.0 | 87.1 | 87.2 | 87.4 | 87.4 | 87.5 | 87.5 | 87.5  | 87.5 | 87.5   | 87.5 | 87.5  |
| ≥ 1200            | 84.7                       | 86.8 | 87.1 | 87.6 | 88.0 | 88.1 | 88.3 | 88.5 | 88.5 | 88.9 | 89.0 | 89.0  | 89.1 | 89.1   | 89.2 | 89.2  |
| ≥ 1000            | 85.3                       | 87.6 | 87.8 | 88.4 | 88.8 | 88.9 | 89.1 | 89.3 | 89.3 | 89.9 | 90.0 | 90.0  | 90.1 | 90.1   | 90.2 | 90.2  |
| ≥ 900             | 85.3                       | 87.7 | 88.1 | 88.8 | 89.2 | 89.2 | 89.5 | 89.7 | 89.7 | 90.3 | 90.4 | 90.4  | 90.4 | 90.4   | 90.6 | 90.6  |
| ≥ 800             | 85.9                       | 88.2 | 88.6 | 89.4 | 89.8 | 89.9 | 90.2 | 90.4 | 90.4 | 91.0 | 91.2 | 91.2  | 91.2 | 91.2   | 91.6 | 91.6  |
| ≥ 700             | 86.3                       | 88.9 | 89.0 | 89.9 | 90.4 | 90.4 | 90.7 | 91.0 | 91.0 | 91.6 | 91.9 | 91.9  | 91.9 | 92.1   | 92.3 | 92.3  |
| ≥ 600             | 86.6                       | 89.0 | 89.5 | 90.5 | 91.0 | 91.0 | 91.4 | 91.7 | 91.7 | 92.4 | 92.7 | 92.7  | 92.7 | 93.0   | 93.1 | 93.1  |
| ≥ 500             | 86.8                       | 89.3 | 89.7 | 90.8 | 91.3 | 91.3 | 91.8 | 92.1 | 92.1 | 92.8 | 93.2 | 93.4  | 93.4 | 93.6   | 93.8 | 93.8  |
| ≥ 400             | 87.1                       | 89.7 | 90.2 | 91.3 | 91.8 | 91.8 | 92.4 | 92.8 | 92.8 | 93.7 | 94.2 | 94.2  | 94.2 | 94.6   | 95.2 | 95.3  |
| ≥ 300             | 87.1                       | 89.9 | 90.4 | 91.5 | 92.1 | 92.1 | 92.7 | 93.3 | 93.4 | 94.4 | 94.8 | 94.9  | 94.9 | 95.7   | 96.7 | 96.8  |
| ≥ 200             | 87.1                       | 89.9 | 90.4 | 91.5 | 92.1 | 92.2 | 93.1 | 93.5 | 93.5 | 94.7 | 95.1 | 95.2  | 95.2 | 96.4   | 97.3 | 97.4  |
| ≥ 100             | 87.1                       | 89.9 | 90.4 | 91.5 | 92.1 | 92.2 | 93.1 | 93.5 | 93.6 | 94.8 | 95.4 | 95.5  | 95.5 | 96.9   | 98.1 | 98.8  |
| ≥ 0               | 87.1                       | 89.9 | 90.4 | 91.5 | 92.1 | 92.2 | 93.1 | 93.5 | 93.6 | 94.8 | 95.4 | 95.5  | 95.5 | 96.9   | 98.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2000

5

DATA PROCESSING DIVISION  
ETAC, USAF  
KANSAS CITY, MO. 64118

# CEILING VERSUS VISIBILITY

93037  
STATION

COLUMBIA SPRINGS COMMUNICATIONS F.  
STATION NAME

47-47,49-42  
ELEVATION

YEARS

1960  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.00-0.00  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |       |      |
|-------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|-------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 1/2 | ≥ 1/4 | ≥ 0  |
| NO CEILING        | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 20000           | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 18000           | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 16000           | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 14000           | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 12000           | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 10000           | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 9000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 8000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 7000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 6000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 5000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 4500            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 4000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 3500            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 3000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 2500            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 2000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 1500            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 1200            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 1000            | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 900             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 800             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 700             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 600             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 500             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 400             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 300             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 200             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 100             | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |
| ≥ 0               | 47.4                     | 47.0 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7 | 47.7  | 47.7  | 47.7 |

TOTAL NUMBER OF OBSERVATIONS 2008

DATA PROCESSING DIVISION  
ETAC, 1961  
ADNEVILLE, N. C. 27011

# CEILING VERSUS VISIBILITY

93067

COLLEGE PARK, MARYLAND

43-47, 49-50

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03 01 1 10  
HOURS PER DAY

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |      |       |      |       |      |       |
|-------------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|------|-------|------|-------|------|-------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .58 | ≥ .7 | ≥ .56 | ≥ .4 | ≥ 0   |
| NO CEILING        | 64.5                     | 53.0 | 45.0 | 42.0 | 43.0 | 45.0  | 45.0 | 45.0  | 45.0  | 45.0 | 45.0 | 45.0  | 45.0 | 45.0  | 45.0 | 45.0  |
| ≥ 20000           | 62.5                     | 52.0 | 42.8 | 42.8 | 42.8 | 42.8  | 42.8 | 42.8  | 42.8  | 42.8 | 42.8 | 42.8  | 42.8 | 42.8  | 42.8 | 42.8  |
| ≥ 18000           | 63.5                     | 53.0 | 43.0 | 43.3 | 43.5 | 43.5  | 43.5 | 43.5  | 43.5  | 43.5 | 43.5 | 43.5  | 43.5 | 43.5  | 43.5 | 43.5  |
| ≥ 16000           | 65.5                     | 55.0 | 46.0 | 46.0 | 46.0 | 46.0  | 46.0 | 46.0  | 46.0  | 46.0 | 46.0 | 46.0  | 46.0 | 46.0  | 46.0 | 46.0  |
| ≥ 14000           | 69.1                     | 59.5 | 49.5 | 49.5 | 49.5 | 49.5  | 49.5 | 49.5  | 49.5  | 49.5 | 49.5 | 49.5  | 49.5 | 49.5  | 49.5 | 49.5  |
| ≥ 12000           | 71.7                     | 61.1 | 52.1 | 52.2 | 52.2 | 52.2  | 52.2 | 52.2  | 52.2  | 52.2 | 52.2 | 52.2  | 52.2 | 52.2  | 52.2 | 52.2  |
| ≥ 10000           | 73.9                     | 63.4 | 53.2 | 53.3 | 53.3 | 53.3  | 53.3 | 53.3  | 53.3  | 53.3 | 53.3 | 53.3  | 53.3 | 53.3  | 53.3 | 53.3  |
| ≥ 9000            | 73.4                     | 63.0 | 53.8 | 53.9 | 53.9 | 53.9  | 53.9 | 53.9  | 53.9  | 53.9 | 53.9 | 53.9  | 53.9 | 53.9  | 53.9 | 53.9  |
| ≥ 8000            | 75.4                     | 65.0 | 55.8 | 55.6 | 55.3 | 55.3  | 55.3 | 55.3  | 55.3  | 55.3 | 55.3 | 55.3  | 55.3 | 55.3  | 55.3 | 55.3  |
| ≥ 7000            | 76.9                     | 67.3 | 57.3 | 57.4 | 57.4 | 57.4  | 57.4 | 57.4  | 57.4  | 57.4 | 57.4 | 57.4  | 57.4 | 57.4  | 57.4 | 57.4  |
| ≥ 6000            | 78.8                     | 70.4 | 59.4 | 59.4 | 59.4 | 59.4  | 59.4 | 59.4  | 59.4  | 59.4 | 59.4 | 59.4  | 59.4 | 59.4  | 59.4 | 59.4  |
| ≥ 5000            | 80.2                     | 72.8 | 60.8 | 60.8 | 60.8 | 60.8  | 60.8 | 60.8  | 60.8  | 60.8 | 60.8 | 60.8  | 60.8 | 60.8  | 60.8 | 60.8  |
| ≥ 4500            | 81.3                     | 74.2 | 61.2 | 61.3 | 61.3 | 61.3  | 61.3 | 61.3  | 61.3  | 61.3 | 61.3 | 61.3  | 61.3 | 61.3  | 61.3 | 61.3  |
| ≥ 4000            | 81.3                     | 74.9 | 61.9 | 61.9 | 61.9 | 61.9  | 61.9 | 61.9  | 61.9  | 61.9 | 61.9 | 61.9  | 61.9 | 61.9  | 61.9 | 61.9  |
| ≥ 3500            | 82.9                     | 76.9 | 62.9 | 62.9 | 62.9 | 62.9  | 62.9 | 62.9  | 62.9  | 62.9 | 62.9 | 62.9  | 62.9 | 62.9  | 62.9 | 62.9  |
| ≥ 3000            | 84.7                     | 78.6 | 64.7 | 64.7 | 64.7 | 64.7  | 64.7 | 64.7  | 64.7  | 64.7 | 64.7 | 64.7  | 64.7 | 64.7  | 64.7 | 64.7  |
| ≥ 2500            | 86.8                     | 80.0 | 66.8 | 66.7 | 66.7 | 66.7  | 66.7 | 66.7  | 66.7  | 66.7 | 66.7 | 66.7  | 66.7 | 66.7  | 66.7 | 66.7  |
| ≥ 2000            | 87.0                     | 80.3 | 66.3 | 66.5 | 66.5 | 66.5  | 66.5 | 66.5  | 66.5  | 66.5 | 66.5 | 66.5  | 66.5 | 66.5  | 66.5 | 66.5  |
| ≥ 1800            | 89.7                     | 82.1 | 69.2 | 69.4 | 69.4 | 69.4  | 69.4 | 69.4  | 69.4  | 69.4 | 69.4 | 69.4  | 69.4 | 69.4  | 69.4 | 69.4  |
| ≥ 1500            | 88.7                     | 80.2 | 69.4 | 69.7 | 69.7 | 69.7  | 69.7 | 69.7  | 69.7  | 69.7 | 69.7 | 69.7  | 69.7 | 69.7  | 69.7 | 69.7  |
| ≥ 1200            | 91.4                     | 81.1 | 71.3 | 71.6 | 71.7 | 71.8  | 72.0 | 72.1  | 72.1  | 72.3 | 72.3 | 72.3  | 72.3 | 72.3  | 72.3 | 72.3  |
| ≥ 1000            | 90.0                     | 81.9 | 72.1 | 72.5 | 72.6 | 72.7  | 73.1 | 73.2  | 73.2  | 73.3 | 73.4 | 73.4  | 73.4 | 73.4  | 73.4 | 73.4  |
| ≥ 900             | 90.3                     | 82.2 | 72.4 | 72.8 | 73.0 | 73.1  | 73.3 | 73.6  | 73.6  | 73.6 | 73.9 | 73.9  | 73.9 | 73.9  | 73.9 | 73.9  |
| ≥ 800             | 90.7                     | 82.9 | 73.3 | 73.7 | 74.0 | 74.1  | 74.2 | 74.8  | 74.8  | 75.0 | 75.2 | 75.2  | 75.2 | 75.2  | 75.2 | 75.2  |
| ≥ 700             | 90.8                     | 83.3 | 73.9 | 74.3 | 74.7 | 74.8  | 75.2 | 75.4  | 75.4  | 75.7 | 75.9 | 75.9  | 75.9 | 75.9  | 75.9 | 75.9  |
| ≥ 600             | 91.0                     | 83.7 | 74.3 | 75.0 | 75.5 | 75.6  | 76.2 | 76.5  | 76.5  | 76.6 | 77.1 | 77.1  | 77.2 | 77.2  | 77.2 | 77.2  |
| ≥ 500             | 91.1                     | 83.9 | 74.5 | 75.3 | 75.8 | 75.9  | 76.5 | 76.9  | 77.0  | 77.4 | 77.6 | 77.6  | 77.6 | 77.6  | 77.6 | 77.6  |
| ≥ 400             | 91.1                     | 84.1 | 74.8 | 75.6 | 76.1 | 76.3  | 77.0 | 77.4  | 77.4  | 78.0 | 78.6 | 78.6  | 78.6 | 78.6  | 78.6 | 78.6  |
| ≥ 300             | 91.2                     | 84.1 | 74.9 | 75.7 | 76.3 | 76.3  | 77.3 | 77.7  | 77.7  | 78.3 | 79.0 | 79.0  | 79.4 | 79.5  | 79.5 | 79.5  |
| ≥ 200             | 91.2                     | 84.2 | 75.0 | 75.8 | 76.4 | 76.6  | 77.3 | 77.8  | 77.8  | 78.4 | 79.2 | 79.2  | 79.6 | 79.7  | 79.8 | 79.8  |
| ≥ 100             | 91.2                     | 84.2 | 75.0 | 75.8 | 76.4 | 76.6  | 77.3 | 77.8  | 77.8  | 78.4 | 79.2 | 79.2  | 79.6 | 79.7  | 79.8 | 79.8  |
| ≥ 0               | 91.3                     | 84.2 | 75.0 | 75.8 | 76.4 | 76.6  | 77.3 | 77.8  | 77.8  | 78.4 | 79.2 | 79.2  | 79.6 | 79.7  | 79.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2009

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28611

## CEILING VERSUS VISIBILITY

93037

COLORADO SPRINGS GILCHRIST FIELD

43-1/2-49-10

1952

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1210-1-30

HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 0  | ≥ 0  |
| NO CEILING      | 36.3                     | 36.6 | 36.5 | 36.5 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 |
| ≥ 20000         | 52.7                     | 54.1 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 |
| ≥ 18000         | 53.9                     | 54.4 | 54.3 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 |
| ≥ 16000         | 55.7                     | 56.2 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 |
| ≥ 14000         | 58.9                     | 59.4 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 |
| ≥ 12000         | 61.8                     | 62.1 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 |
| ≥ 10000         | 62.6                     | 63.0 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2 |
| ≥ 9000          | 64.4                     | 65.0 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 | 65.2 |
| ≥ 8000          | 68.1                     | 68.7 | 68.9 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 |
| ≥ 7000          | 71.4                     | 72.0 | 72.2 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 |
| ≥ 6000          | 74.9                     | 75.5 | 75.7 | 75.7 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 |
| ≥ 5000          | 78.8                     | 79.4 | 79.6 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 |
| ≥ 4500          | 80.2                     | 80.9 | 81.1 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 |
| ≥ 4000          | 82.5                     | 83.2 | 83.4 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 |
| ≥ 3500          | 84.1                     | 84.8 | 85.1 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 |
| ≥ 3000          | 86.7                     | 87.0 | 87.9 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 |
| ≥ 2500          | 89.6                     | 90.0 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 |
| ≥ 2000          | 90.1                     | 91.5 | 91.8 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 |
| ≥ 1800          | 90.5                     | 92.2 | 92.5 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 1500          | 91.1                     | 93.1 | 93.7 | 94.2 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 |
| ≥ 1200          | 91.8                     | 93.9 | 94.4 | 94.9 | 95.1 | 95.2 | 95.2 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 |
| ≥ 1000          | 92.0                     | 94.3 | 94.9 | 95.5 | 95.7 | 95.8 | 95.8 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| ≥ 900           | 92.1                     | 94.3 | 95.1 | 95.6 | 95.9 | 96.0 | 96.0 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 |
| ≥ 800           | 92.3                     | 94.6 | 95.5 | 96.1 | 96.4 | 96.5 | 96.6 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 |
| ≥ 700           | 92.4                     | 94.9 | 95.7 | 96.3 | 96.7 | 96.8 | 96.9 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 |
| ≥ 600           | 92.7                     | 95.2 | 96.1 | 96.7 | 97.1 | 97.2 | 97.5 | 97.8 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 |
| ≥ 500           | 92.9                     | 95.4 | 96.3 | 96.9 | 97.3 | 97.4 | 97.7 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| ≥ 400           | 92.9                     | 95.5 | 96.3 | 97.0 | 97.4 | 97.5 | 97.8 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 300           | 92.9                     | 95.5 | 96.3 | 97.0 | 97.4 | 97.5 | 97.8 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 200           | 92.9                     | 95.5 | 96.3 | 97.0 | 97.4 | 97.5 | 97.8 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 100           | 92.9                     | 95.5 | 96.3 | 97.0 | 97.4 | 97.5 | 97.8 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 0             | 92.9                     | 95.5 | 96.3 | 97.0 | 97.4 | 97.5 | 97.8 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |

TOTAL NUMBER OF OBSERVATIONS

2916

DATA PROCESSING DIVISION  
ETAC, 1974  
ASHEVILLE, N.C. 28601

# CEILING VERSUS VISIBILITY

93037 COLORADO SPRINGS COLORADO-PETERSON 47-47.49N 107-47.49W

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15.0-17.0  
HOURS

| CEILING<br>FEET       | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                       | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 35.8                     | 30.9 | 31.1 | 31.2 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3  | 31.3 | 31.3  | 31.3 | 31.3 |
| ≥ 18000               | 47.6                     | 47.0 | 47.7 | 47.7 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0  | 48.0 | 48.0  | 48.0 | 48.0 |
| ≥ 16000               | 48.1                     | 48.3 | 48.4 | 48.6 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7 | 48.7  | 48.7 | 48.7  | 48.7 | 48.7 |
| ≥ 14000               | 52.0                     | 51.9 | 51.1 | 51.2 | 51.2 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3  | 51.3 | 51.3  | 51.3 | 51.3 |
| ≥ 12000               | 55.7                     | 56.0 | 56.2 | 56.4 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5  | 56.5 | 56.5  | 56.5 | 56.5 |
| ≥ 10000               | 59.2                     | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3  | 59.3 | 59.3  | 59.3 | 59.3 |
| ≥ 8000                | 61.4                     | 61.7 | 62.0 | 62.1 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2  | 62.2 | 62.2  | 62.2 | 62.2 |
| ≥ 7000                | 62.8                     | 64.1 | 64.4 | 64.6 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7  | 64.7 | 64.7  | 64.7 | 64.7 |
| ≥ 6000                | 68.8                     | 69.1 | 69.4 | 69.6 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7  | 69.7 | 69.7  | 69.7 | 69.7 |
| ≥ 5000                | 72.0                     | 74.4 | 72.7 | 72.9 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0  | 73.0 | 73.0  | 73.0 | 73.0 |
| ≥ 4500                | 75.8                     | 76.3 | 76.6 | 76.8 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0  | 77.0 | 77.0 |
| ≥ 4000                | 82.2                     | 80.7 | 81.1 | 81.3 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5  | 81.5 | 81.5  | 81.5 | 81.5 |
| ≥ 3500                | 82.1                     | 82.7 | 83.0 | 83.2 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5  | 83.5 | 83.5  | 83.5 | 83.5 |
| ≥ 3000                | 84.3                     | 84.0 | 85.4 | 85.6 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9  | 85.9 | 85.9 |
| ≥ 2500                | 85.0                     | 85.7 | 86.1 | 86.4 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 2000                | 86.4                     | 87.2 | 87.5 | 88.0 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3  | 88.3 | 88.3  | 88.3 | 88.3 |
| ≥ 1800                | 87.0                     | 88.5 | 88.9 | 89.3 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  | 89.6 | 89.6  | 89.6 | 89.6 |
| ≥ 1500                | 89.0                     | 90.1 | 90.7 | 91.0 | 91.4 | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5 | 91.5  | 91.5 | 91.5 |
| ≥ 1200                | 89.9                     | 91.0 | 91.5 | 92.0 | 92.4 | 92.4 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 | 92.5 |
| ≥ 1000                | 91.0                     | 92.4 | 92.8 | 93.3 | 93.7 | 93.7 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9  | 93.9 | 93.9 |
| ≥ 900                 | 91.3                     | 92.9 | 93.4 | 94.0 | 94.4 | 94.4 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6 | 94.6 |
| ≥ 800                 | 91.7                     | 93.4 | 94.0 | 94.6 | 95.2 | 95.2 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4  | 95.4 | 95.4 |
| ≥ 700                 | 92.1                     | 93.9 | 94.2 | 95.1 | 95.6 | 95.6 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9 |
| ≥ 600                 | 92.1                     | 93.8 | 94.4 | 95.4 | 96.0 | 96.0 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4  | 96.4 | 96.4 |
| ≥ 500                 | 92.2                     | 93.8 | 94.5 | 95.5 | 96.1 | 96.1 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7  | 96.7 | 96.7 |
| ≥ 400                 | 92.3                     | 94.0 | 94.7 | 95.7 | 96.4 | 96.4 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1  | 97.1 | 97.1 |
| ≥ 300                 | 92.4                     | 94.1 | 94.9 | 96.0 | 96.6 | 96.6 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4  | 97.4 | 97.4 |
| ≥ 200                 | 92.4                     | 94.2 | 95.0 | 96.1 | 96.8 | 96.8 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6  | 97.6 | 97.6 |
| ≥ 100                 | 92.4                     | 94.2 | 95.0 | 96.1 | 96.8 | 96.8 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7  | 97.7 | 97.7 |
| ≥ 0                   | 92.4                     | 94.2 | 95.0 | 96.1 | 96.8 | 96.8 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7  | 97.7 | 97.7 |

TOTAL NUMBER OF OBSERVATIONS 2008

DATA PROCESSING CENTER  
ETAC, USAF  
ATHELVILLE, N. C. 28671

# CEILING VERSUS VISIBILITY

93037  
STATION

COLLEGE SPRINGS MILITARY AIRPORT, FL

43-47,49-58

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1960-7, 10  
MONTHS (1-12)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |      |      |         |      |          |      |      |
|-------------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|---------|------|----------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ 1  | ≥ .5 | ≥ .5, 8 | ≥ .5 | ≥ .5, 10 | ≥ .5 | ≥ 0  |
| NO CEILING        | 42.2                       | 42.3 | 42.4 | 42.4 | 42.4 | 42.5  | 42.5 | 42.5  | 42.5  | 42.5 | 42.5 | 42.5    | 42.5 | 42.5     | 42.5 | 42.5 |
| ≥ 20000           | 35.9                       | 36.1 | 36.1 | 36.1 | 36.2 | 36.2  | 36.2 | 36.2  | 36.2  | 36.2 | 36.2 | 36.2    | 36.2 | 36.2     | 36.2 | 36.2 |
| IV 18000          | 59.9                       | 59.7 | 59.7 | 59.7 | 59.8 | 59.8  | 59.9 | 59.9  | 59.9  | 59.9 | 59.9 | 59.9    | 59.9 | 59.9     | 59.9 | 59.9 |
| IV 16000          | 59.0                       | 59.2 | 59.2 | 59.2 | 59.3 | 59.3  | 59.4 | 59.4  | 59.4  | 59.4 | 59.4 | 59.4    | 59.4 | 59.4     | 59.4 | 59.4 |
| IV 14000          | 57.9                       | 57.6 | 57.6 | 57.6 | 57.7 | 57.7  | 57.7 | 57.7  | 57.7  | 57.7 | 57.7 | 57.7    | 57.7 | 57.7     | 57.7 | 57.7 |
| IV 12000          | 57.9                       | 57.7 | 57.8 | 57.8 | 57.8 | 57.9  | 57.9 | 57.9  | 57.9  | 57.9 | 57.9 | 57.9    | 57.9 | 57.9     | 57.9 | 57.9 |
| IV 10000          | 59.9                       | 70.4 | 70.3 | 70.3 | 70.3 | 70.4  | 70.4 | 70.4  | 70.4  | 70.4 | 70.4 | 70.4    | 70.4 | 70.4     | 70.4 | 70.4 |
| IV 9000           | 71.7                       | 72.1 | 72.2 | 72.2 | 72.3 | 72.3  | 72.4 | 72.4  | 72.4  | 72.4 | 72.4 | 72.4    | 72.4 | 72.4     | 72.4 | 72.4 |
| IV 8000           | 74.3                       | 74.0 | 74.8 | 74.8 | 74.9 | 74.9  | 75.0 | 75.0  | 75.0  | 75.0 | 75.0 | 75.0    | 75.0 | 75.0     | 75.0 | 75.0 |
| IV 7000           | 76.9                       | 76.9 | 77.1 | 77.1 | 77.2 | 77.2  | 77.3 | 77.3  | 77.3  | 77.3 | 77.3 | 77.3    | 77.3 | 77.3     | 77.3 | 77.3 |
| IV 6000           | 78.9                       | 78.8 | 79.0 | 79.0 | 79.1 | 79.1  | 79.3 | 79.3  | 79.3  | 79.3 | 79.3 | 79.3    | 79.3 | 79.3     | 79.3 | 79.3 |
| IV 5000           | 81.3                       | 81.8 | 81.9 | 82.0 | 82.0 | 82.1  | 82.2 | 82.2  | 82.2  | 82.2 | 82.2 | 82.2    | 82.2 | 82.2     | 82.2 | 82.2 |
| IV 4500           | 82.4                       | 82.9 | 83.1 | 83.1 | 83.2 | 83.2  | 83.4 | 83.4  | 83.4  | 83.4 | 83.4 | 83.4    | 83.4 | 83.4     | 83.4 | 83.4 |
| IV 4000           | 84.1                       | 84.7 | 84.8 | 84.9 | 85.0 | 85.0  | 85.2 | 85.2  | 85.2  | 85.2 | 85.2 | 85.2    | 85.2 | 85.2     | 85.2 | 85.2 |
| IV 3500           | 84.9                       | 85.5 | 85.6 | 85.8 | 85.8 | 85.9  | 86.0 | 86.0  | 86.0  | 86.1 | 86.1 | 86.1    | 86.1 | 86.1     | 86.1 | 86.1 |
| IV 3000           | 86.9                       | 87.3 | 87.7 | 87.8 | 87.9 | 87.9  | 88.1 | 88.2  | 88.2  | 88.2 | 88.2 | 88.2    | 88.2 | 88.2     | 88.2 | 88.2 |
| IV 2500           | 87.9                       | 88.0 | 88.8 | 89.0 | 89.1 | 89.2  | 89.4 | 89.4  | 89.4  | 89.5 | 89.5 | 89.5    | 89.5 | 89.5     | 89.5 | 89.5 |
| IV 2000           | 89.0                       | 90.2 | 90.4 | 90.7 | 90.8 | 90.8  | 91.1 | 91.2  | 91.2  | 91.2 | 91.2 | 91.2    | 91.2 | 91.2     | 91.2 | 91.2 |
| IV 1800           | 89.9                       | 90.0 | 90.8 | 91.1 | 91.2 | 91.3  | 91.6 | 91.7  | 91.7  | 91.7 | 91.8 | 91.8    | 91.8 | 91.8     | 91.8 | 91.8 |
| IV 1500           | 90.0                       | 91.4 | 91.7 | 92.0 | 92.2 | 92.3  | 92.7 | 92.8  | 92.8  | 92.8 | 92.9 | 92.9    | 92.9 | 92.9     | 92.9 | 92.9 |
| IV 1200           | 90.3                       | 92.0 | 92.5 | 92.8 | 93.0 | 93.1  | 93.5 | 93.6  | 93.7  | 93.8 | 93.8 | 93.8    | 93.8 | 93.8     | 93.8 | 93.8 |
| IV 1000           | 91.0                       | 92.0 | 93.4 | 93.8 | 94.0 | 94.2  | 94.8 | 94.9  | 95.1  | 95.2 | 95.3 | 95.3    | 95.3 | 95.3     | 95.3 | 95.3 |
| IV 900            | 91.4                       | 93.1 | 93.8 | 94.2 | 94.4 | 94.6  | 95.3 | 95.5  | 95.7  | 95.9 | 96.0 | 96.0    | 96.0 | 96.0     | 96.0 | 96.0 |
| IV 800            | 91.4                       | 93.2 | 93.9 | 94.5 | 94.7 | 94.8  | 95.6 | 95.9  | 96.1  | 96.3 | 96.5 | 96.5    | 96.5 | 96.5     | 96.5 | 96.5 |
| IV 700            | 91.4                       | 93.3 | 94.0 | 94.6 | 94.9 | 95.0  | 95.9 | 96.2  | 96.4  | 96.7 | 96.9 | 96.9    | 96.9 | 96.9     | 96.9 | 96.9 |
| IV 600            | 91.4                       | 93.4 | 94.1 | 94.8 | 95.1 | 95.3  | 96.2 | 96.7  | 96.9  | 97.2 | 97.5 | 97.5    | 97.5 | 97.5     | 97.5 | 97.5 |
| IV 500            | 91.9                       | 93.5 | 94.2 | 95.0 | 95.3 | 95.5  | 96.4 | 96.9  | 97.1  | 97.6 | 97.9 | 98.0    | 98.0 | 98.0     | 98.0 | 98.0 |
| IV 400            | 91.5                       | 93.7 | 94.4 | 95.2 | 95.5 | 95.7  | 96.6 | 97.1  | 97.3  | 97.9 | 98.3 | 98.3    | 98.3 | 98.3     | 98.3 | 98.3 |
| IV 300            | 91.7                       | 93.7 | 94.4 | 95.2 | 95.6 | 95.8  | 96.7 | 97.3  | 97.5  | 98.1 | 98.6 | 98.6    | 98.6 | 98.6     | 98.6 | 98.6 |
| IV 200            | 91.5                       | 93.7 | 94.5 | 95.3 | 95.7 | 96.0  | 97.0 | 97.5  | 97.7  | 98.4 | 98.9 | 98.9    | 98.9 | 98.9     | 98.9 | 98.9 |
| IV 100            | 91.5                       | 93.7 | 94.5 | 95.3 | 95.7 | 96.0  | 97.0 | 97.5  | 97.7  | 98.4 | 98.9 | 98.9    | 98.9 | 98.9     | 98.9 | 98.9 |
| IV 0              | 91.5                       | 93.7 | 94.5 | 95.3 | 95.7 | 96.0  | 97.0 | 97.5  | 97.7  | 98.4 | 98.9 | 98.9    | 98.9 | 98.9     | 98.9 | 98.9 |

TOTAL NUMBER OF OBSERVATIONS

2010

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28011

# CEILING VERSUS VISIBILITY

93037  
STATION

CULLEN, W. SPRINGS, COLO-PETERSON, F.  
STATION NAME

43-47.49-116  
ELEVATION

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1/1/64-12/31/64  
PERIOD

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ 0  |
| NO CEILING      | 57.7                       | 57.9 | 58.0 | 56.0 | 58.0 | 58.0 | 58.1 | 56.1 | 58.1 | 58.1 | 56.1 | 58.1  | 58.1 | 58.1  | 58.1 |
| ≥ 20000         | 64.1                       | 64.3 | 64.3 | 64.5 | 65.0 | 65.0 | 65.7 | 64.7 | 65.7 | 65.7 | 65.7 | 65.7  | 65.7 | 65.7  | 65.7 |
| ≥ 18000         | 66.0                       | 66.4 | 66.4 | 66.4 | 66.5 | 66.5 | 66.5 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0  | 66.0 | 66.0  | 66.0 |
| ≥ 16000         | 67.3                       | 67.7 | 67.7 | 67.7 | 67.8 | 67.8 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9  | 67.9 | 67.9  | 67.9 |
| ≥ 14000         | 69.4                       | 70.2 | 70.3 | 70.3 | 70.3 | 70.3 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4  | 70.4 | 70.4  | 70.4 |
| ≥ 12000         | 72.5                       | 72.7 | 72.8 | 72.8 | 72.8 | 72.8 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9  | 72.9 | 72.9  | 72.9 |
| ≥ 10000         | 74.0                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6  | 74.6 | 74.6  | 74.6 |
| ≥ 9000          | 75.0                       | 75.4 | 75.4 | 75.5 | 75.5 | 75.5 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6  | 75.6 | 75.6  | 75.6 |
| ≥ 8000          | 76.4                       | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0  | 77.0 |
| ≥ 7000          | 77.3                       | 77.6 | 77.8 | 77.8 | 77.8 | 77.8 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9  | 77.9 | 77.9  | 77.9 |
| ≥ 6000          | 78.6                       | 79.1 | 79.2 | 79.2 | 79.2 | 79.2 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3 | 79.3  | 79.3 | 79.3  | 79.3 |
| ≥ 5000          | 80.5                       | 80.9 | 81.0 | 81.0 | 81.0 | 81.0 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1 | 81.1  | 81.1 |
| ≥ 4500          | 81.4                       | 82.0 | 82.1 | 82.2 | 82.2 | 82.2 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3  | 82.3 | 82.3  | 82.3 |
| ≥ 4000          | 82.7                       | 83.4 | 83.5 | 83.6 | 83.7 | 83.7 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 | 83.8  | 83.8 |
| ≥ 3500          | 83.3                       | 84.1 | 84.2 | 84.3 | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5  | 84.5 |
| ≥ 3000          | 84.5                       | 85.2 | 85.4 | 85.4 | 85.5 | 85.5 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6  | 85.6 | 85.6  | 85.6 |
| ≥ 2500          | 85.3                       | 86.1 | 86.3 | 86.3 | 86.5 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6 | 86.6  | 86.6 |
| ≥ 2000          | 86.4                       | 87.0 | 87.4 | 87.4 | 87.5 | 87.5 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6 | 87.6  | 87.6 |
| ≥ 1800          | 88.4                       | 89.1 | 89.4 | 89.4 | 89.5 | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  | 89.6 | 89.6  | 89.6 |
| ≥ 1500          | 89.5                       | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0  | 90.0 |
| ≥ 1200          | 90.2                       | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6  | 90.6 | 90.6  | 90.6 |
| ≥ 1000          | 90.7                       | 90.6 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0  | 91.0 | 91.0  | 91.0 |
| ≥ 900           | 90.9                       | 90.6 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3  | 91.3 |
| ≥ 800           | 91.3                       | 91.3 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  | 91.7 | 91.7  | 91.7 |
| ≥ 700           | 91.5                       | 91.5 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1  | 92.1 |
| ≥ 600           | 91.7                       | 92.0 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| ≥ 500           | 92.0                       | 92.0 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9 |
| ≥ 400           | 92.0                       | 92.4 | 92.9 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 |
| ≥ 300           | 92.1                       | 92.5 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 |
| ≥ 200           | 92.1                       | 92.5 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 |
| ≥ 100           | 92.1                       | 92.7 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 |
| ≥ 0             | 92.1                       | 92.7 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 |

TOTAL NUMBER OF OBSERVATIONS 2009

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

91037  
STATION

CHILDRESS SPRINGS COLC-PETERS, FL  
STATION NAME

3-47-49-58  
YEARS

1957  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

211  
HOURS (EST)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |      |      |        |      |         |      |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|--------|------|---------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ 1  | ≥ .5 | ≥ .5.8 | ≥ .5 | ≥ .5.16 | ≥ .5 |
| NO CEILING      | 47.0                       | 47.3 | 47.3 | 47.4 | 47.4 | 47.4  | 47.4 | 47.4  | 47.4  | 47.4 | 47.4 | 47.4   | 47.4 | 47.4    | 47.4 |
| ≥ 20000         | 49.8                       | 50.2 | 60.2 | 60.3 | 60.3 | 60.3  | 60.3 | 60.3  | 60.3  | 60.3 | 60.3 | 60.3   | 60.3 | 60.3    | 60.3 |
| ≥ 18000         | 60.0                       | 61.0 | 61.0 | 61.1 | 61.1 | 61.1  | 61.1 | 61.1  | 61.1  | 61.1 | 61.1 | 61.1   | 61.1 | 61.1    | 61.1 |
| ≥ 16000         | 62.5                       | 62.9 | 63.0 | 63.0 | 63.0 | 63.0  | 63.0 | 63.0  | 63.0  | 63.0 | 63.0 | 63.0   | 63.0 | 63.0    | 63.0 |
| ≥ 14000         | 65.3                       | 66.4 | 66.3 | 66.3 | 66.4 | 66.4  | 66.4 | 66.4  | 66.4  | 66.4 | 66.4 | 66.4   | 66.4 | 66.4    | 66.4 |
| ≥ 12000         | 68.3                       | 69.4 | 69.3 | 69.3 | 69.4 | 69.4  | 69.4 | 69.4  | 69.4  | 69.4 | 69.4 | 69.4   | 69.4 | 69.4    | 69.4 |
| ≥ 10000         | 70.3                       | 70.7 | 70.8 | 70.8 | 70.9 | 70.9  | 70.9 | 70.9  | 70.9  | 70.9 | 70.9 | 70.9   | 70.9 | 70.9    | 70.9 |
| ≥ 9000          | 71.4                       | 71.9 | 72.0 | 72.0 | 72.0 | 72.1  | 72.1 | 72.1  | 72.1  | 72.1 | 72.1 | 72.1   | 72.1 | 72.1    | 72.1 |
| ≥ 8000          | 73.3                       | 74.0 | 74.1 | 74.1 | 74.2 | 74.2  | 74.2 | 74.2  | 74.2  | 74.2 | 74.2 | 74.2   | 74.2 | 74.2    | 74.2 |
| ≥ 7000          | 75.2                       | 75.7 | 75.8 | 75.9 | 75.9 | 75.9  | 75.9 | 75.9  | 75.9  | 75.9 | 75.9 | 75.9   | 75.9 | 75.9    | 75.9 |
| ≥ 6000          | 77.1                       | 77.6 | 77.7 | 77.8 | 77.9 | 77.9  | 77.9 | 77.9  | 77.9  | 77.9 | 77.9 | 77.9   | 77.9 | 77.9    | 77.9 |
| ≥ 5000          | 79.2                       | 79.8 | 79.9 | 80.0 | 80.0 | 80.1  | 80.1 | 80.1  | 80.1  | 80.1 | 80.1 | 80.1   | 80.1 | 80.1    | 80.1 |
| ≥ 4500          | 80.2                       | 80.8 | 80.9 | 81.0 | 81.0 | 81.1  | 81.1 | 81.1  | 81.1  | 81.1 | 81.1 | 81.1   | 81.1 | 81.1    | 81.1 |
| ≥ 4000          | 81.2                       | 81.7 | 81.8 | 81.9 | 82.0 | 82.0  | 82.1 | 82.1  | 82.1  | 82.1 | 82.1 | 82.1   | 82.1 | 82.1    | 82.1 |
| ≥ 3500          | 82.4                       | 83.1 | 83.3 | 83.4 | 83.5 | 83.5  | 83.6 | 83.6  | 83.6  | 83.6 | 83.6 | 83.6   | 83.6 | 83.6    | 83.6 |
| ≥ 3000          | 83.0                       | 83.8 | 83.0 | 83.1 | 83.2 | 83.3  | 83.3 | 83.3  | 83.3  | 83.3 | 83.3 | 83.3   | 83.3 | 83.3    | 83.3 |
| ≥ 2500          | 85.2                       | 86.2 | 86.4 | 86.6 | 86.8 | 86.8  | 86.9 | 86.9  | 86.9  | 86.9 | 86.9 | 86.9   | 86.9 | 86.9    | 86.9 |
| ≥ 2000          | 86.3                       | 87.7 | 88.0 | 88.3 | 88.5 | 88.5  | 88.7 | 88.7  | 88.7  | 88.8 | 88.8 | 88.8   | 88.8 | 88.8    | 88.8 |
| ≥ 1800          | 87.0                       | 88.3 | 88.6 | 88.9 | 89.1 | 89.2  | 89.3 | 89.4  | 89.4  | 89.4 | 89.4 | 89.4   | 89.4 | 89.4    | 89.4 |
| ≥ 1600          | 87.0                       | 89.3 | 89.7 | 90.0 | 90.3 | 90.4  | 90.6 | 90.7  | 90.7  | 90.8 | 90.8 | 90.8   | 90.8 | 90.8    | 90.8 |
| ≥ 1400          | 88.3                       | 90.1 | 90.6 | 90.9 | 91.3 | 91.4  | 91.6 | 91.8  | 91.8  | 92.0 | 92.1 | 92.1   | 92.1 | 92.1    | 92.1 |
| ≥ 1200          | 89.0                       | 90.8 | 91.3 | 91.7 | 92.1 | 92.2  | 92.5 | 92.7  | 92.7  | 93.0 | 93.0 | 93.0   | 93.0 | 93.0    | 93.0 |
| ≥ 1000          | 90.2                       | 91.1 | 91.6 | 92.1 | 92.5 | 92.6  | 92.9 | 93.1  | 93.2  | 93.3 | 93.3 | 93.3   | 93.3 | 93.3    | 93.3 |
| ≥ 900           | 91.4                       | 92.0 | 92.6 | 93.0 | 93.1 | 93.5  | 93.8 | 93.9  | 94.2  | 94.4 | 94.4 | 94.4   | 94.4 | 94.4    | 94.4 |
| ≥ 800           | 91.7                       | 92.3 | 92.9 | 93.4 | 93.5 | 94.0  | 94.3 | 94.3  | 94.3  | 94.3 | 94.3 | 94.3   | 94.3 | 94.3    | 94.3 |
| ≥ 700           | 92.0                       | 92.7 | 93.4 | 93.9 | 94.0 | 94.6  | 95.0 | 95.0  | 95.0  | 95.0 | 95.0 | 95.0   | 95.0 | 95.0    | 95.0 |
| ≥ 600           | 92.4                       | 93.0 | 93.7 | 94.3 | 94.4 | 95.0  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |
| ≥ 500           | 92.4                       | 93.2 | 94.0 | 94.5 | 94.7 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |
| ≥ 400           | 92.4                       | 93.2 | 94.0 | 94.5 | 94.7 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |
| ≥ 300           | 92.4                       | 93.2 | 94.0 | 94.5 | 94.7 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |
| ≥ 200           | 92.4                       | 93.2 | 94.0 | 94.5 | 94.7 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |
| ≥ 100           | 92.4                       | 93.2 | 94.0 | 94.5 | 94.7 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |
| ≥ 0             | 92.4                       | 93.2 | 94.0 | 94.5 | 94.7 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 | 95.3 | 95.3   | 95.3 | 95.3    | 95.3 |

TOTAL NUMBER OF OBSERVATIONS

10005

5

DATA PROCESSING DIVISION  
ETAC, CLEAR  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

95017  
STATION

COLLEGE SPRINGS GOLD-PETERSBURG  
STATION NAME

43-47.49-14  
ELEVATION

TEXAS  
STATE

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10/6/70 (10/1/70)  
MOSES (10/1/70)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 4/8 | ≥ 3/8 | ≥ 2/8 | ≥ 0   |
| NO CEILING<br>≥ 20000 | 58.9                       | 54.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0  | 59.0  | 59.0  | 59.0  | 59.0  |
| ≥ 18000               | 65.3                       | 65.4 | 65.4 | 65.4 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5  | 65.5  | 65.5  | 65.5  | 65.5  |
| ≥ 16000               | 67.1                       | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2  | 67.2  | 67.2  | 67.2  | 67.2  |
| ≥ 14000               | 69.9                       | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1 | 69.1  | 69.1  | 69.1  | 69.1  | 69.1  |
| ≥ 12000               | 71.5                       | 71.7 | 71.7 | 71.7 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  |
| ≥ 10000               | 73.3                       | 73.4 | 73.4 | 73.5 | 73.5 | 73.5 | 73.5 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6  | 73.6  | 73.6  | 73.6  | 73.6  |
| ≥ 9000                | 73.5                       | 74.0 | 74.0 | 74.1 | 74.1 | 74.1 | 74.1 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2  | 74.2  | 74.2  | 74.2  | 74.2  |
| ≥ 8000                | 74.7                       | 74.9 | 74.9 | 74.9 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  |
| ≥ 7000                | 75.7                       | 75.9 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1  | 76.1  | 76.1  | 76.1  | 76.1  |
| ≥ 6000                | 77.8                       | 78.0 | 78.0 | 78.0 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1  | 78.1  | 78.1  | 78.1  | 78.1  |
| ≥ 5000                | 79.8                       | 80.0 | 80.0 | 80.1 | 80.1 | 80.1 | 80.1 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  |
| ≥ 4500                | 80.5                       | 80.7 | 80.7 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8  | 80.8  | 80.8  | 80.8  |
| ≥ 4000                | 81.4                       | 81.7 | 81.7 | 81.8 | 81.8 | 81.8 | 81.8 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9  | 81.9  | 81.9  | 81.9  | 81.9  |
| ≥ 3500                | 82.5                       | 82.9 | 82.9 | 83.0 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1  | 83.1  | 83.1  | 83.1  | 83.1  |
| ≥ 3000                | 83.5                       | 84.0 | 84.1 | 84.1 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2  | 84.2  | 84.2  | 84.2  | 84.2  |
| ≥ 2500                | 84.2                       | 84.9 | 85.0 | 85.1 | 85.2 | 85.2 | 85.2 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3  | 85.3  | 85.3  | 85.3  | 85.3  |
| ≥ 2000                | 85.9                       | 86.6 | 86.8 | 86.8 | 87.0 | 87.0 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1  | 87.1  | 87.1  | 87.1  |
| ≥ 1800                | 86.5                       | 87.2 | 87.4 | 87.5 | 87.7 | 87.7 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8  | 87.8  | 87.8  | 87.8  |
| ≥ 1500                | 87.0                       | 88.2 | 88.4 | 88.6 | 88.7 | 88.8 | 88.8 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9  | 88.9  | 88.9  | 88.9  | 88.9  |
| ≥ 1200                | 87.8                       | 89.5 | 89.5 | 89.7 | 89.9 | 89.9 | 90.0 | 90.1 | 90.1 | 90.2 | 90.3 | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  |
| ≥ 1000                | 88.5                       | 90.1 | 90.3 | 90.3 | 90.7 | 90.8 | 90.8 | 90.9 | 90.9 | 91.2 | 91.2 | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  |
| ≥ 900                 | 88.9                       | 90.2 | 90.5 | 90.7 | 90.9 | 90.9 | 91.0 | 91.1 | 91.1 | 91.4 | 91.5 | 91.5  | 91.5  | 91.5  | 91.5  | 91.5  |
| ≥ 800                 | 89.9                       | 90.8 | 91.1 | 91.4 | 91.6 | 91.6 | 91.7 | 91.8 | 91.8 | 92.1 | 92.1 | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  |
| ≥ 700                 | 89.4                       | 91.9 | 91.8 | 92.1 | 92.3 | 92.4 | 92.5 | 92.6 | 92.6 | 92.9 | 93.0 | 93.0  | 93.1  | 93.1  | 93.1  | 93.1  |
| ≥ 600                 | 89.5                       | 92.0 | 92.4 | 92.8 | 93.0 | 93.1 | 93.2 | 93.3 | 93.3 | 93.6 | 93.7 | 93.7  | 93.8  | 93.8  | 93.8  | 93.8  |
| ≥ 500                 | 90.1                       | 92.5 | 93.0 | 93.3 | 93.7 | 93.7 | 93.9 | 94.0 | 94.0 | 94.4 | 94.5 | 94.5  | 94.6  | 94.6  | 94.6  | 94.6  |
| ≥ 400                 | 90.5                       | 93.0 | 93.5 | 94.0 | 94.2 | 94.3 | 94.5 | 94.6 | 94.6 | 95.2 | 95.3 | 95.3  | 95.4  | 95.4  | 95.4  | 95.4  |
| ≥ 300                 | 90.5                       | 93.1 | 94.3 | 94.8 | 95.1 | 95.2 | 95.4 | 95.5 | 95.5 | 96.1 | 96.3 | 96.3  | 96.5  | 96.5  | 96.7  | 97.0  |
| ≥ 200                 | 91.1                       | 94.2 | 94.7 | 95.3 | 95.8 | 95.9 | 96.3 | 96.4 | 96.4 | 97.1 | 97.5 | 97.5  | 97.9  | 98.0  | 98.2  | 98.6  |
| ≥ 100                 | 91.1                       | 94.2 | 94.8 | 95.3 | 95.8 | 95.9 | 96.3 | 96.5 | 96.5 | 97.2 | 97.5 | 97.8  | 98.3  | 98.3  | 98.7  | 99.3  |
| 0                     | 91.1                       | 94.2 | 94.8 | 95.3 | 95.8 | 95.9 | 96.3 | 96.5 | 96.5 | 97.2 | 97.5 | 97.8  | 98.3  | 98.4  | 98.8  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2070

5

DATA PROCESSING DIVISION  
ETAC, 1000  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

91057 STATION 0. LEASING SPRINGS CLOS-PETERS, PD 03-6240-04 YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

000-000  
HOURS 12.5-1

| CEILING<br>(FEET)     | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |      |      |      |      |      |      |      |      |
|-----------------------|--------------------------|------|------|------|------|-------|------|-------|------|------|------|------|------|------|------|------|
|                       | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .8 | ≥ .6 | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .2 | ≥ 0  |
| NO CEILING<br>≥ 20000 | 55.7                     | 55.5 | 55.4 | 55.4 | 55.4 | 55.4  | 55.4 | 55.4  | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 |
| IV 18000              | 55.2                     | 55.0 | 55.7 | 55.7 | 55.7 | 55.7  | 55.7 | 55.7  | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 |
| IV 16000              | 55.3                     | 55.1 | 55.8 | 55.8 | 55.8 | 55.8  | 55.8 | 55.8  | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 |
| IV 14000              | 55.8                     | 55.5 | 56.4 | 56.4 | 56.4 | 56.4  | 56.4 | 56.4  | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 |
| IV 12000              | 71.7                     | 71.2 | 72.3 | 72.3 | 72.3 | 72.3  | 72.3 | 72.3  | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 |
| IV 10000              | 73.2                     | 73.0 | 73.7 | 73.8 | 73.8 | 73.8  | 73.8 | 73.8  | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 |
| IV 9000               | 73.3                     | 73.9 | 74.1 | 74.1 | 74.1 | 74.1  | 74.1 | 74.1  | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 |
| IV 8000               | 74.3                     | 74.9 | 75.0 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 |
| IV 7000               | 75.0                     | 75.4 | 75.6 | 75.6 | 75.6 | 75.6  | 75.6 | 75.6  | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 |
| IV 6000               | 76.7                     | 77.2 | 77.3 | 77.4 | 77.4 | 77.4  | 77.4 | 77.4  | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 |
| IV 5000               | 78.6                     | 78.8 | 78.9 | 79.0 | 79.0 | 79.0  | 79.0 | 79.0  | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 |
| IV 4500               | 78.8                     | 79.2 | 79.4 | 79.4 | 79.4 | 79.4  | 79.4 | 79.4  | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| IV 4000               | 79.9                     | 80.4 | 80.6 | 80.6 | 80.6 | 80.6  | 80.6 | 80.6  | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 |
| IV 3500               | 80.7                     | 81.3 | 81.5 | 81.6 | 81.6 | 81.6  | 81.6 | 81.6  | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 |
| IV 3000               | 81.7                     | 82.3 | 82.5 | 82.6 | 82.6 | 82.6  | 82.6 | 82.6  | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 |
| IV 2500               | 82.2                     | 83.1 | 83.4 | 83.5 | 83.5 | 83.5  | 83.5 | 83.5  | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 |
| IV 2000               | 83.3                     | 84.2 | 84.6 | 84.8 | 84.8 | 84.8  | 84.8 | 84.8  | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 |
| IV 1800               | 84.1                     | 84.9 | 85.4 | 85.5 | 85.5 | 85.5  | 85.5 | 85.5  | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 |
| IV 1500               | 84.5                     | 85.5 | 86.0 | 86.2 | 86.3 | 86.3  | 86.3 | 86.3  | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 |
| IV 1200               | 85.8                     | 86.9 | 87.6 | 87.7 | 87.9 | 87.9  | 87.9 | 87.9  | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 |
| IV 1000               | 86.5                     | 87.0 | 88.5 | 88.6 | 89.0 | 89.0  | 89.0 | 89.0  | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 |
| IV 900                | 89.5                     | 88.4 | 88.9 | 89.2 | 89.4 | 89.4  | 89.4 | 89.4  | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 |
| IV 800                | 87.1                     | 88.0 | 89.3 | 89.7 | 90.0 | 90.1  | 90.1 | 90.1  | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 |
| IV 700                | 87.3                     | 88.5 | 89.5 | 90.1 | 90.4 | 90.5  | 90.5 | 90.5  | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 |
| IV 600                | 87.5                     | 89.3 | 90.5 | 90.9 | 91.5 | 91.6  | 91.6 | 91.6  | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |
| IV 500                | 87.7                     | 89.7 | 91.1 | 91.7 | 92.4 | 92.4  | 92.4 | 92.4  | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 |
| IV 400                | 87.8                     | 90.0 | 91.3 | 92.0 | 92.7 | 92.8  | 92.8 | 92.8  | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 |
| IV 300                | 88.1                     | 90.8 | 92.2 | 92.9 | 93.8 | 93.8  | 93.8 | 93.8  | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 |
| IV 200                | 88.2                     | 91.0 | 92.5 | 93.3 | 94.3 | 94.4  | 94.4 | 94.4  | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 |
| IV 100                | 88.2                     | 91.0 | 92.5 | 93.3 | 94.4 | 94.4  | 94.4 | 94.4  | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 |
| IV 0                  | 88.2                     | 91.0 | 92.5 | 93.3 | 94.4 | 94.4  | 94.4 | 94.4  | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 |

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, H&M  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLG-PETERSON FLD  
STATION NAME

43-47,49-50  
YEARS

15Y  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04-06-50  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |         |      |         |         |      |       |       |       |        |       |       |
|-------------------|----------------------------|------|------|------|------|---------|------|---------|---------|------|-------|-------|-------|--------|-------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2 1/2 | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1  | ≥ 3/4 | ≥ 5/8 | ≥ 3/5 | ≥ 5/16 | ≥ 1/2 | ≥ 0   |
| NO CEILING        | 48.9                       | 49.3 | 49.3 | 49.3 | 49.3 | 49.3    | 49.3 | 49.3    | 49.3    | 49.3 | 49.3  | 49.3  | 49.3  | 49.3   | 49.3  | 49.3  |
| ≥ 20000           | 64.1                       | 64.5 | 64.5 | 64.5 | 64.5 | 64.5    | 64.5 | 64.5    | 64.5    | 64.5 | 64.5  | 64.5  | 64.5  | 64.5   | 64.5  | 64.5  |
| ≥ 18000           | 65.1                       | 65.7 | 65.7 | 65.7 | 65.7 | 65.7    | 65.7 | 65.7    | 65.7    | 65.7 | 65.7  | 65.7  | 65.7  | 65.7   | 65.7  | 65.7  |
| ≥ 16000           | 66.9                       | 67.4 | 67.7 | 67.3 | 67.3 | 67.3    | 67.3 | 67.3    | 67.3    | 67.3 | 67.3  | 67.3  | 67.3  | 67.3   | 67.3  | 67.3  |
| ≥ 14000           | 69.7                       | 70.1 | 70.1 | 70.1 | 70.1 | 70.1    | 70.1 | 70.1    | 70.1    | 70.1 | 70.1  | 70.1  | 70.1  | 70.1   | 70.1  | 70.1  |
| ≥ 12000           | 72.4                       | 72.7 | 72.7 | 72.5 | 72.8 | 72.8    | 72.8 | 72.8    | 72.8    | 72.8 | 72.8  | 72.8  | 72.8  | 72.8   | 72.8  | 72.8  |
| ≥ 10000           | 74.5                       | 74.8 | 74.8 | 74.8 | 74.8 | 74.8    | 74.8 | 74.8    | 74.8    | 74.8 | 74.8  | 74.8  | 74.8  | 74.8   | 74.8  | 74.8  |
| ≥ 9000            | 74.8                       | 75.2 | 75.2 | 75.2 | 75.2 | 75.2    | 75.2 | 75.2    | 75.2    | 75.2 | 75.2  | 75.2  | 75.2  | 75.2   | 75.2  | 75.2  |
| ≥ 8000            | 75.9                       | 76.2 | 76.2 | 76.3 | 76.3 | 76.3    | 76.3 | 76.3    | 76.3    | 76.3 | 76.3  | 76.3  | 76.3  | 76.3   | 76.3  | 76.3  |
| ≥ 7000            | 76.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0    | 77.0 | 77.0    | 77.0    | 77.0 | 77.0  | 77.0  | 77.0  | 77.0   | 77.0  | 77.0  |
| ≥ 6000            | 77.3                       | 77.7 | 77.7 | 77.7 | 77.7 | 77.7    | 77.7 | 77.7    | 77.7    | 77.7 | 77.7  | 77.7  | 77.7  | 77.7   | 77.7  | 77.7  |
| ≥ 5000            | 78.2                       | 78.6 | 78.6 | 78.6 | 78.6 | 78.6    | 78.6 | 78.6    | 78.6    | 78.6 | 78.6  | 78.6  | 78.6  | 78.6   | 78.6  | 78.6  |
| ≥ 4500            | 78.7                       | 79.0 | 79.0 | 79.1 | 79.1 | 79.1    | 79.1 | 79.1    | 79.1    | 79.1 | 79.1  | 79.1  | 79.1  | 79.1   | 79.1  | 79.1  |
| ≥ 4000            | 79.3                       | 79.7 | 79.7 | 79.8 | 79.8 | 79.8    | 79.8 | 79.8    | 79.8    | 79.8 | 79.8  | 79.8  | 79.8  | 79.8   | 79.8  | 79.8  |
| ≥ 3500            | 80.0                       | 80.4 | 80.4 | 80.5 | 80.5 | 80.5    | 80.5 | 80.5    | 80.5    | 80.5 | 80.5  | 80.5  | 80.5  | 80.5   | 80.5  | 80.5  |
| ≥ 3000            | 81.2                       | 81.6 | 81.6 | 81.8 | 81.8 | 81.8    | 81.8 | 81.8    | 81.8    | 81.8 | 81.8  | 81.8  | 81.8  | 81.8   | 81.8  | 81.8  |
| ≥ 2500            | 82.7                       | 83.3 | 83.3 | 83.5 | 83.5 | 83.5    | 83.5 | 83.5    | 83.5    | 83.5 | 83.5  | 83.5  | 83.5  | 83.5   | 83.5  | 83.5  |
| ≥ 2000            | 83.5                       | 84.2 | 84.2 | 84.6 | 84.7 | 84.7    | 84.9 | 84.9    | 84.9    | 84.9 | 84.9  | 84.9  | 84.9  | 84.9   | 84.9  | 84.9  |
| ≥ 1800            | 84.0                       | 84.7 | 84.8 | 85.1 | 85.2 | 85.2    | 85.3 | 85.4    | 85.4    | 85.4 | 85.4  | 85.4  | 85.4  | 85.4   | 85.4  | 85.4  |
| ≥ 1500            | 85.1                       | 85.8 | 85.9 | 86.3 | 86.4 | 86.4    | 86.6 | 86.7    | 86.7    | 86.7 | 86.7  | 86.7  | 86.7  | 86.7   | 86.7  | 86.7  |
| ≥ 1200            | 86.1                       | 87.0 | 87.2 | 87.7 | 87.9 | 87.9    | 88.1 | 88.1    | 88.1    | 88.1 | 88.1  | 88.1  | 88.1  | 88.1   | 88.1  | 88.1  |
| ≥ 1000            | 87.5                       | 88.8 | 89.1 | 89.6 | 89.8 | 89.8    | 90.1 | 90.2    | 90.2    | 90.2 | 90.2  | 90.2  | 90.2  | 90.2   | 90.2  | 90.2  |
| ≥ 900             | 88.0                       | 89.4 | 89.8 | 90.2 | 90.6 | 90.6    | 90.8 | 91.0    | 91.0    | 91.0 | 91.0  | 91.0  | 91.0  | 91.0   | 91.0  | 91.0  |
| ≥ 800             | 88.4                       | 90.0 | 90.6 | 91.1 | 91.5 | 91.5    | 91.8 | 91.9    | 91.9    | 91.9 | 91.9  | 91.9  | 91.9  | 91.9   | 91.9  | 91.9  |
| ≥ 700             | 88.7                       | 90.3 | 90.9 | 91.6 | 91.9 | 91.9    | 92.3 | 92.4    | 92.4    | 92.4 | 92.4  | 92.4  | 92.4  | 92.4   | 92.4  | 92.4  |
| ≥ 600             | 89.0                       | 90.9 | 91.7 | 92.5 | 92.9 | 92.9    | 93.0 | 93.3    | 93.3    | 93.3 | 93.3  | 93.3  | 93.3  | 93.3   | 93.3  | 93.3  |
| ≥ 500             | 89.3                       | 91.5 | 92.5 | 93.4 | 93.9 | 94.1    | 94.5 | 94.8    | 94.8    | 94.8 | 95.0  | 95.1  | 95.1  | 95.1   | 95.1  | 95.1  |
| ≥ 400             | 89.3                       | 91.9 | 92.9 | 93.9 | 94.5 | 94.7    | 95.3 | 95.7    | 95.7    | 95.7 | 96.0  | 96.1  | 96.1  | 96.2   | 96.2  | 96.2  |
| ≥ 300             | 89.4                       | 92.0 | 93.1 | 94.2 | 94.8 | 95.2    | 96.0 | 96.5    | 96.5    | 96.5 | 97.1  | 97.3  | 97.3  | 97.4   | 97.4  | 97.4  |
| ≥ 200             | 89.4                       | 92.0 | 93.1 | 94.3 | 94.9 | 95.3    | 96.3 | 96.8    | 96.8    | 96.8 | 97.4  | 97.6  | 97.6  | 98.1   | 98.2  | 98.3  |
| ≥ 100             | 89.4                       | 92.0 | 93.2 | 94.3 | 94.9 | 95.4    | 96.3 | 96.8    | 96.8    | 96.8 | 97.5  | 97.7  | 97.7  | 98.3   | 98.4  | 98.9  |
| ≥ 0               | 89.4                       | 92.0 | 93.2 | 94.3 | 94.9 | 95.4    | 96.3 | 96.8    | 96.8    | 96.8 | 97.5  | 97.7  | 97.7  | 98.3   | 98.4  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS

2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FG  
STATION NAME

43-47-49-48  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

67.00-1.00  
HOURS (L.S.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 47.8                       | 46.0 | 48.0 | 46.0 | 45.0 | 45.0 | 48.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0  | 45.0 | 45.0   | 45.0 | 45.0 |
| ≥ 20000           | 64.9                       | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.1  | 64.1 | 64.1   | 64.1 | 64.1 |
| ≥ 18000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9  | 64.9 | 64.9   | 64.9 | 64.9 |
| ≥ 16000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9  | 64.9 | 64.9   | 64.9 | 64.9 |
| ≥ 14000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9  | 64.9 | 64.9   | 64.9 | 64.9 |
| ≥ 12000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9  | 64.9 | 64.9   | 64.9 | 64.9 |
| ≥ 10000           | 72.5                       | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6  | 72.6 | 72.6   | 72.6 | 72.6 |
| ≥ 9000            | 73.0                       | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2  | 73.2 | 73.2   | 73.2 | 73.2 |
| ≥ 8000            | 75.3                       | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4  | 75.4 | 75.4   | 75.4 | 75.4 |
| ≥ 7000            | 76.8                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 6000            | 78.1                       | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2  | 78.2 | 78.2   | 78.2 | 78.2 |
| ≥ 5000            | 79.5                       | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6  | 79.6 | 79.6   | 79.6 | 79.6 |
| ≥ 4500            | 80.7                       | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8 | 80.8   | 80.8 | 80.8 |
| ≥ 4000            | 82.2                       | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4   | 82.4 | 82.4 |
| ≥ 3500            | 83.3                       | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5  | 83.5 | 83.5   | 83.5 | 83.5 |
| ≥ 3000            | 84.5                       | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9  | 84.9 | 84.9   | 84.9 | 84.9 |
| ≥ 2500            | 86.4                       | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8 | 86.8   | 86.8 | 86.8 |
| ≥ 2000            | 87.7                       | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2   | 88.2 | 88.2 |
| ≥ 1800            | 88.1                       | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5   | 88.5 | 88.5 |
| ≥ 1500            | 89.1                       | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9  | 89.9 | 89.9   | 89.9 | 89.9 |
| ≥ 1200            | 90.2                       | 91.2 | 91.4 | 91.7 | 91.7 | 91.7 | 91.8 | 91.8 | 91.8 | 91.9 | 91.9 | 91.9  | 91.9 | 91.9   | 91.9 | 91.9 |
| ≥ 1000            | 91.2                       | 92.3 | 92.7 | 93.1 | 93.2 | 93.2 | 93.3 | 93.3 | 93.3 | 93.4 | 93.4 | 93.4  | 93.4 | 93.4   | 93.4 | 93.4 |
| ≥ 900             | 91.7                       | 93.1 | 93.3 | 93.7 | 93.8 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0   | 94.0 | 94.0 |
| ≥ 800             | 92.3                       | 93.9 | 94.1 | 94.7 | 94.7 | 94.6 | 94.9 | 94.9 | 94.9 | 95.0 | 95.0 | 95.0  | 95.0 | 95.0   | 95.0 | 95.0 |
| ≥ 700             | 92.8                       | 94.3 | 94.5 | 95.1 | 95.2 | 95.3 | 95.4 | 95.4 | 95.4 | 95.6 | 95.6 | 95.6  | 95.6 | 95.6   | 95.6 | 95.6 |
| ≥ 600             | 92.8                       | 94.8 | 95.1 | 95.8 | 96.0 | 96.1 | 96.2 | 96.3 | 96.3 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5   | 96.5 | 96.5 |
| ≥ 500             | 92.9                       | 95.0 | 95.3 | 96.2 | 96.5 | 96.8 | 96.9 | 97.1 | 97.1 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4   | 97.4 | 97.4 |
| ≥ 400             | 92.9                       | 95.1 | 95.4 | 96.3 | 96.8 | 97.1 | 97.4 | 97.7 | 97.7 | 98.1 | 98.1 | 98.2  | 98.2 | 98.2   | 98.2 | 98.2 |
| ≥ 300             | 92.9                       | 95.1 | 95.5 | 96.5 | 97.1 | 97.5 | 97.9 | 98.3 | 98.4 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8   | 98.8 | 98.8 |
| ≥ 200             | 92.9                       | 95.1 | 95.5 | 96.5 | 97.1 | 97.5 | 97.9 | 98.3 | 98.4 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8   | 98.8 | 98.8 |
| ≥ 100             | 92.9                       | 95.1 | 95.5 | 96.5 | 97.1 | 97.5 | 97.9 | 98.3 | 98.4 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8   | 98.8 | 98.8 |
| ≥ 0               | 92.9                       | 95.1 | 95.5 | 96.5 | 97.1 | 97.5 | 97.9 | 98.3 | 98.4 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8   | 98.8 | 98.8 |

TOTAL NUMBER OF OBSERVATIONS

2976

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

94037  
STATION

COLUMBIA SPRINGS COL-D-PETERSON, FD  
STATION NAME

47-47.49-68  
TEARS

MO  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

171.0=14.10  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 30.3                       | 21.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1  | 21.1 | 21.1   | 21.1 | 21.1 |
| ≥ 20000           | 44.8                       | 43.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1  | 45.1 | 45.1   | 45.1 | 45.1 |
| ≥ 18000           | 45.8                       | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1  | 40.1 | 40.1   | 40.1 | 40.1 |
| ≥ 16000           | 47.3                       | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0  | 47.0 | 47.0   | 47.0 | 47.0 |
| ≥ 14000           | 49.4                       | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7  | 49.7 | 49.7   | 49.7 | 49.7 |
| ≥ 12000           | 51.7                       | 51.7 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8  | 51.8 | 51.8   | 51.8 | 51.8 |
| ≥ 10000           | 53.2                       | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4  | 53.4 | 53.4   | 53.4 | 53.4 |
| ≥ 9000            | 55.0                       | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4  | 55.4 | 55.4   | 55.4 | 55.4 |
| ≥ 8000            | 62.9                       | 63.3 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4  | 63.4 | 63.4   | 63.4 | 63.4 |
| ≥ 7000            | 65.8                       | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2  | 64.2 | 64.2   | 64.2 | 64.2 |
| ≥ 6000            | 73.7                       | 74.1 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.2  | 74.2 | 74.2   | 74.2 | 74.2 |
| ≥ 5000            | 78.4                       | 78.9 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0  | 79.0 | 79.0   | 79.0 | 79.0 |
| ≥ 4500            | 81.1                       | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7   | 81.7 | 81.7 |
| ≥ 4000            | 83.2                       | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 | 83.8   | 83.8 | 83.8 |
| ≥ 3500            | 85.2                       | 85.8 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9   | 85.9 | 85.9 |
| ≥ 3000            | 86.0                       | 87.4 | 87.3 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4  | 87.4 | 87.4   | 87.4 | 87.4 |
| ≥ 2500            | 88.2                       | 89.4 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4 |
| ≥ 2000            | 90.3                       | 91.4 | 91.3 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4   | 91.4 | 91.4 |
| ≥ 1500            | 90.7                       | 91.0 | 91.7 | 91.6 | 91.8 | 91.8 | 91.8 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9  | 91.9 | 91.9   | 91.9 | 91.9 |
| ≥ 1300            | 92.3                       | 93.3 | 93.6 | 93.7 | 93.8 | 93.8 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 | 93.9 |
| ≥ 1200            | 93.2                       | 94.8 | 94.9 | 95.0 | 95.1 | 95.1 | 95.1 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2  | 95.2 | 95.2   | 95.2 | 95.2 |
| ≥ 1000            | 93.8                       | 95.6 | 95.9 | 96.0 | 96.1 | 96.1 | 96.1 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2  | 96.2 | 96.2   | 96.2 | 96.2 |
| ≥ 900             | 94.1                       | 96.1 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4 |
| ≥ 800             | 94.3                       | 96.4 | 96.3 | 97.1 | 97.4 | 97.4 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 97.5 |
| ≥ 700             | 94.7                       | 96.9 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4   | 97.4 | 97.4 |
| ≥ 600             | 94.8                       | 97.3 | 97.6 | 98.1 | 98.4 | 98.4 | 98.4 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 500             | 94.8                       | 97.3 | 97.8 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |
| ≥ 400             | 94.8                       | 97.3 | 97.8 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |
| ≥ 300             | 94.8                       | 97.3 | 97.8 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |
| ≥ 200             | 94.8                       | 97.3 | 97.8 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |
| ≥ 100             | 94.8                       | 97.3 | 97.8 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |
| ≥ 0               | 94.8                       | 97.3 | 97.8 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4 |

TOTAL NUMBER OF OBSERVATIONS

2077

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLLEGE-PETERSON, CO  
STATION NAME

43-47-49-50-51-52  
YEARS

DAY

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11-12-17-10  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  |
| NO CEILING        | 23.7                       | 23.3 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9  | 23.9 | 23.9   | 23.9 |
| ≥ 20000           | 36.7                       | 36.8 | 36.9 | 36.8 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9  | 36.9 | 36.9   | 36.9 |
| ≥ 18000           | 37.0                       | 37.7 | 37.8 | 37.4 | 37.8 | 37.8 | 37.7 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8  | 37.8 | 37.8   | 37.8 |
| ≥ 16000           | 39.5                       | 39.5 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7  | 39.7 | 39.7   | 39.7 |
| ≥ 14000           | 42.8                       | 42.9 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1  | 43.1 | 43.1   | 43.1 |
| ≥ 12000           | 45.8                       | 45.9 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0  | 46.0 | 46.0   | 46.0 |
| ≥ 10000           | 47.9                       | 48.0 | 48.2 | 48.3 | 48.3 | 48.2 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3  | 48.3 | 48.3   | 48.3 |
| ≥ 9000            | 52.3                       | 52.3 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7  | 52.7 | 52.7   | 52.7 |
| ≥ 8000            | 62.9                       | 63.1 | 63.4 | 63.4 | 63.4 | 63.4 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5  | 63.5 | 63.5   | 63.5 |
| ≥ 7000            | 70.6                       | 70.6 | 70.9 | 70.9 | 70.9 | 70.9 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0 | 71.0  | 71.0 | 71.0   | 71.0 |
| ≥ 6000            | 76.3                       | 76.3 | 76.8 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9  | 76.9 | 76.9   | 76.9 |
| ≥ 5000            | 81.2                       | 81.4 | 81.7 | 81.7 | 81.7 | 81.7 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8  | 81.8 | 81.8   | 81.8 |
| ≥ 4500            | 83.0                       | 83.9 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2  | 84.2 | 84.2   | 84.2 |
| ≥ 4000            | 85.3                       | 85.8 | 86.2 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3   | 86.3 |
| ≥ 3500            | 87.1                       | 87.9 | 88.0 | 88.1 | 88.1 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2   | 88.2 |
| ≥ 3000            | 88.9                       | 89.5 | 89.9 | 90.1 | 90.1 | 90.1 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2   | 90.2 |
| ≥ 2500            | 90.9                       | 91.7 | 92.1 | 92.3 | 92.4 | 92.4 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5   | 92.5 |
| ≥ 2000            | 92.1                       | 93.0 | 93.4 | 93.7 | 93.8 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 |
| ≥ 1800            | 92.4                       | 93.3 | 93.7 | 93.9 | 94.0 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1   | 94.1 |
| ≥ 1500            | 93.0                       | 94.0 | 94.4 | 94.7 | 94.8 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 |
| ≥ 1200            | 93.7                       | 94.4 | 95.4 | 95.6 | 95.8 | 95.8 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9   | 95.9 |
| ≥ 1000            | 94.4                       | 95.0 | 96.3 | 96.6 | 96.9 | 96.9 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1   | 97.1 |
| ≥ 900             | 94.5                       | 96.1 | 96.7 | 97.1 | 97.3 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 |
| ≥ 800             | 94.8                       | 96.7 | 97.3 | 97.8 | 98.0 | 98.1 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 700             | 94.9                       | 96.7 | 97.3 | 98.0 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 |
| ≥ 600             | 94.9                       | 97.2 | 97.9 | 98.4 | 98.7 | 98.7 | 98.9 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0   | 99.0 |
| ≥ 500             | 95.0                       | 97.3 | 98.1 | 98.6 | 98.8 | 98.8 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2   | 99.2 |
| ≥ 400             | 95.0                       | 97.4 | 98.2 | 98.7 | 99.0 | 99.1 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 300             | 95.0                       | 97.4 | 98.2 | 98.7 | 99.0 | 99.1 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 200             | 95.0                       | 97.4 | 98.2 | 98.7 | 99.0 | 99.1 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 100             | 95.0                       | 97.4 | 98.2 | 98.7 | 99.0 | 99.1 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| 0                 | 95.0                       | 97.4 | 98.2 | 98.7 | 99.0 | 99.1 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |

TOTAL NUMBER OF OBSERVATIONS

2076

USAF ETAC

FORM  
JUL 64

0-14-5(OL 1)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, 115AF  
ASHBURY, N. C. 27601

# CEILING VERSUS VISIBILITY

STATION  
93037

STATION NAME  
COLUMBIA SPRINGS, COLORADO-PETERSON, FM

43-47,49-50

YEARS

YEAR

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1960-2000  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0   |
| NO CEILING        | 35.6                       | 35.6 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7 | 35.7  | 35.7 | 35.7  | 35.7 | 35.7  |
| ≥ 20000           | 47.9                       | 48.0 | 48.1 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2  | 48.2 | 48.2  | 48.2 | 48.2  |
| ≥ 18000           | 48.8                       | 48.8 | 48.9 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0  | 49.0 | 49.0  | 49.0 | 49.0  |
| ≥ 16000           | 50.5                       | 50.7 | 50.8 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0  | 51.0 | 51.0  | 51.0 | 51.0  |
| ≥ 14000           | 54.1                       | 54.3 | 54.4 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5  | 54.5 | 54.5  | 54.5 | 54.5  |
| ≥ 12000           | 57.8                       | 57.9 | 57.7 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9  | 57.9 | 57.9  | 57.9 | 57.9  |
| ≥ 10000           | 59.5                       | 59.7 | 59.8 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0  | 60.0 | 60.0  | 60.0 | 60.0  |
| ≥ 9000            | 62.9                       | 63.2 | 63.3 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4 | 63.4  | 63.4 | 63.4  | 63.4 | 63.4  |
| ≥ 8000            | 69.9                       | 69.8 | 69.9 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0  | 70.0 | 70.0  | 70.0 | 70.0  |
| ≥ 7000            | 74.1                       | 74.4 | 74.5 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6  | 74.6 | 74.6  | 74.6 | 74.6  |
| ≥ 6000            | 77.7                       | 77.9 | 78.0 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2  | 78.2 | 78.2  | 78.2 | 78.2  |
| ≥ 5000            | 81.9                       | 82.2 | 82.3 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4  | 82.4 | 82.4  |
| ≥ 4500            | 83.9                       | 84.3 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5  | 84.5 | 84.5  |
| ≥ 4000            | 85.8                       | 86.0 | 86.1 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3  | 86.3 | 86.3  |
| ≥ 3500            | 87.0                       | 87.6 | 87.7 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9 | 87.9  | 87.9 | 87.9  |
| ≥ 3000            | 88.7                       | 89.3 | 89.6 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  | 89.8 | 89.8  | 89.8 | 89.8  |
| ≥ 2500            | 90.1                       | 90.9 | 91.1 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4  | 91.4 | 91.4  |
| ≥ 2000            | 91.3                       | 92.3 | 92.5 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8  | 92.8 | 92.8  |
| ≥ 1800            | 91.7                       | 92.7 | 92.9 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 | 93.2  |
| ≥ 1500            | 92.4                       | 93.5 | 93.7 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1  |
| ≥ 1200            | 93.0                       | 94.0 | 94.8 | 95.1 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3  | 95.3 | 95.3  |
| ≥ 1000            | 93.3                       | 95.0 | 95.2 | 95.6 | 95.8 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9  |
| ≥ 900             | 93.5                       | 95.1 | 95.4 | 95.8 | 96.0 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1  | 96.1 | 96.1  | 96.1 | 96.1  |
| ≥ 800             | 93.8                       | 95.6 | 95.9 | 96.3 | 96.5 | 96.6 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7  | 96.7 | 96.7  |
| ≥ 700             | 93.7                       | 96.0 | 96.2 | 96.7 | 96.9 | 97.0 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1  | 97.1 | 97.1  |
| ≥ 600             | 94.1                       | 96.3 | 96.7 | 97.2 | 97.5 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8  | 97.8 | 97.8  |
| ≥ 500             | 94.2                       | 96.6 | 97.0 | 97.5 | 97.9 | 98.0 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3  | 98.3 | 98.3  |
| ≥ 400             | 94.2                       | 96.8 | 97.3 | 97.8 | 98.2 | 98.3 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7  |
| ≥ 300             | 94.8                       | 96.9 | 97.4 | 97.9 | 98.3 | 98.5 | 98.7 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8  | 98.8 | 98.8  |
| ≥ 200             | 94.2                       | 96.9 | 97.4 | 98.0 | 98.4 | 98.5 | 98.8 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0  | 99.0 | 99.0  |
| ≥ 100             | 96.2                       | 96.9 | 97.4 | 98.0 | 98.4 | 98.5 | 98.8 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0  | 99.0 | 99.0  |
| ≥ 0               | 96.2                       | 96.9 | 97.4 | 98.0 | 98.4 | 98.5 | 98.8 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0  | 99.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2077

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

92037  
STATION

COLUMBIA SPRINGS CILCO-PETERSON FLD  
STATION NAME

43-47,49-58  
YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21,562,360  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |         |      |         |         |      |       |       |       |        |       |      |
|-------------------|----------------------------|------|------|------|------|---------|------|---------|---------|------|-------|-------|-------|--------|-------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2 1/2 | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1  | ≥ 3/4 | ≥ 5/8 | ≥ 1/2 | ≥ 5/16 | ≥ 1/4 | ≥ 0  |
| NO CEILING        | 54.7                       | 54.5 | 54.5 | 54.5 | 54.5 | 54.5    | 54.5 | 54.5    | 54.5    | 54.5 | 54.5  | 54.5  | 54.5  | 54.5   | 54.5  | 54.5 |
| ≥ 20000           | 61.9                       | 62.2 | 62.3 | 62.3 | 62.3 | 62.3    | 62.3 | 62.3    | 62.3    | 62.3 | 62.3  | 62.3  | 62.3  | 62.3   | 62.3  | 62.3 |
| ≥ 18000           | 62.5                       | 62.8 | 62.8 | 62.8 | 62.8 | 62.8    | 62.8 | 62.8    | 62.8    | 62.8 | 62.8  | 62.8  | 62.8  | 62.8   | 62.8  | 62.8 |
| ≥ 16000           | 64.7                       | 65.0 | 65.1 | 65.1 | 65.1 | 65.1    | 65.1 | 65.1    | 65.1    | 65.1 | 65.1  | 65.1  | 65.1  | 65.1   | 65.1  | 65.1 |
| ≥ 14000           | 67.3                       | 67.6 | 67.6 | 67.6 | 67.6 | 67.6    | 67.6 | 67.6    | 67.6    | 67.6 | 67.6  | 67.6  | 67.6  | 67.6   | 67.6  | 67.6 |
| ≥ 12000           | 69.8                       | 70.1 | 70.2 | 70.2 | 70.2 | 70.2    | 70.2 | 70.2    | 70.2    | 70.2 | 70.2  | 70.2  | 70.2  | 70.2   | 70.2  | 70.2 |
| ≥ 10000           | 71.5                       | 72.0 | 72.0 | 72.0 | 72.0 | 72.0    | 72.0 | 72.0    | 72.0    | 72.0 | 72.0  | 72.0  | 72.0  | 72.0   | 72.0  | 72.0 |
| ≥ 9000            | 73.5                       | 73.8 | 73.9 | 73.9 | 73.9 | 73.9    | 73.9 | 73.9    | 73.9    | 73.9 | 73.9  | 73.9  | 73.9  | 73.9   | 73.9  | 73.9 |
| ≥ 8000            | 75.7                       | 76.0 | 76.0 | 76.0 | 76.0 | 76.0    | 76.0 | 76.0    | 76.0    | 76.0 | 76.0  | 76.0  | 76.0  | 76.0   | 76.0  | 76.0 |
| ≥ 7000            | 76.6                       | 77.1 | 77.2 | 77.2 | 77.2 | 77.2    | 77.2 | 77.2    | 77.2    | 77.2 | 77.2  | 77.2  | 77.2  | 77.2   | 77.2  | 77.2 |
| ≥ 6000            | 79.2                       | 79.6 | 79.6 | 79.6 | 79.6 | 79.6    | 79.6 | 79.6    | 79.6    | 79.6 | 79.6  | 79.6  | 79.6  | 79.6   | 79.6  | 79.6 |
| ≥ 5000            | 81.4                       | 81.8 | 81.9 | 81.9 | 81.9 | 81.9    | 81.9 | 81.9    | 81.9    | 81.9 | 81.9  | 81.9  | 81.9  | 81.9   | 81.9  | 81.9 |
| ≥ 4500            | 82.2                       | 82.7 | 82.7 | 82.7 | 82.7 | 82.7    | 82.7 | 82.7    | 82.7    | 82.7 | 82.7  | 82.7  | 82.7  | 82.7   | 82.7  | 82.7 |
| ≥ 4000            | 83.8                       | 84.1 | 84.2 | 84.2 | 84.2 | 84.2    | 84.2 | 84.2    | 84.2    | 84.2 | 84.2  | 84.2  | 84.2  | 84.2   | 84.2  | 84.2 |
| ≥ 3500            | 84.4                       | 85.3 | 85.3 | 85.3 | 85.3 | 85.3    | 85.3 | 85.3    | 85.3    | 85.3 | 85.3  | 85.3  | 85.3  | 85.3   | 85.3  | 85.3 |
| ≥ 3000            | 86.0                       | 86.9 | 87.0 | 87.0 | 87.0 | 87.0    | 87.0 | 87.0    | 87.0    | 87.0 | 87.0  | 87.0  | 87.0  | 87.0   | 87.0  | 87.0 |
| ≥ 2500            | 87.0                       | 88.0 | 88.3 | 88.3 | 88.3 | 88.3    | 88.3 | 88.3    | 88.3    | 88.3 | 88.3  | 88.3  | 88.3  | 88.3   | 88.3  | 88.3 |
| ≥ 2000            | 88.1                       | 89.3 | 89.7 | 89.8 | 89.8 | 89.9    | 89.9 | 89.9    | 89.9    | 89.9 | 89.9  | 89.9  | 89.9  | 89.9   | 89.9  | 89.9 |
| ≥ 1800            | 88.7                       | 90.0 | 90.4 | 90.5 | 90.5 | 90.6    | 90.6 | 90.6    | 90.6    | 90.6 | 90.6  | 90.6  | 90.6  | 90.6   | 90.6  | 90.6 |
| ≥ 1500            | 89.5                       | 91.0 | 91.4 | 91.5 | 91.5 | 91.6    | 91.7 | 91.7    | 91.7    | 91.7 | 91.7  | 91.7  | 91.7  | 91.7   | 91.7  | 91.7 |
| ≥ 1200            | 90.6                       | 92.3 | 92.7 | 93.0 | 93.0 | 93.1    | 93.1 | 93.2    | 93.2    | 93.2 | 93.2  | 93.2  | 93.2  | 93.2   | 93.2  | 93.2 |
| ≥ 1000            | 91.8                       | 93.2 | 93.6 | 93.9 | 93.9 | 94.0    | 94.1 | 94.1    | 94.2    | 94.2 | 94.2  | 94.2  | 94.2  | 94.2   | 94.2  | 94.2 |
| ≥ 900             | 91.8                       | 93.7 | 94.2 | 94.5 | 94.5 | 94.6    | 94.7 | 94.7    | 94.7    | 94.7 | 94.8  | 94.8  | 94.8  | 94.8   | 94.8  | 94.8 |
| ≥ 800             | 92.0                       | 94.0 | 94.5 | 94.7 | 94.8 | 94.9    | 95.0 | 95.1    | 95.1    | 95.1 | 95.2  | 95.2  | 95.2  | 95.2   | 95.2  | 95.2 |
| ≥ 700             | 92.2                       | 94.2 | 94.7 | 95.0 | 95.1 | 95.2    | 95.3 | 95.3    | 95.3    | 95.3 | 95.5  | 95.5  | 95.5  | 95.5   | 95.5  | 95.5 |
| ≥ 600             | 92.4                       | 94.6 | 95.1 | 95.4 | 95.6 | 95.7    | 95.8 | 95.9    | 95.9    | 95.9 | 96.0  | 96.1  | 96.1  | 96.1   | 96.1  | 96.1 |
| ≥ 500             | 92.9                       | 95.1 | 95.6 | 96.0 | 96.3 | 96.3    | 96.4 | 96.5    | 96.5    | 96.5 | 96.9  | 96.9  | 96.9  | 96.9   | 96.9  | 96.9 |
| ≥ 400             | 93.2                       | 95.5 | 96.0 | 96.3 | 96.6 | 96.7    | 96.9 | 97.0    | 97.0    | 97.0 | 97.4  | 97.5  | 97.5  | 97.5   | 97.5  | 97.5 |
| ≥ 300             | 93.6                       | 96.1 | 96.6 | 97.0 | 97.3 | 97.3    | 97.6 | 97.7    | 97.7    | 97.7 | 98.2  | 98.3  | 98.3  | 98.3   | 98.3  | 98.3 |
| ≥ 200             | 93.8                       | 96.2 | 96.8 | 97.3 | 97.5 | 97.6    | 97.8 | 98.0    | 98.0    | 98.0 | 98.5  | 98.7  | 98.7  | 98.7   | 98.7  | 98.7 |
| ≥ 100             | 94.6                       | 96.2 | 96.8 | 97.3 | 97.5 | 97.6    | 97.9 | 98.0    | 98.0    | 98.0 | 98.6  | 98.9  | 98.9  | 98.9   | 98.9  | 98.9 |
| ≥ 0               | 93.6                       | 96.2 | 96.8 | 97.3 | 97.5 | 97.6    | 97.9 | 98.0    | 98.0    | 98.0 | 98.6  | 98.9  | 98.9  | 98.9   | 98.9  | 98.9 |

TOTAL NUMBER OF OBSERVATIONS 2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28811

# CEILING VERSUS VISIBILITY

93027  
STATION

COLORADO SPRINGS COL-DETERSON FD  
STATION NAME

43-47-09-68  
YEARS

1-1  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1-1  
HOURS 24 H

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0   |
| NO CEILING<br>≥ 20000 | 44.4                       | 44.5 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6  | 44.6 | 44.6   | 44.6 | 44.6  |
| ≥ 18000               | 56.4                       | 57.1 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2  | 57.2 | 57.2   | 57.2 | 57.2  |
| ≥ 16000               | 58.9                       | 58.8 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9  | 58.9 | 58.9   | 58.9 | 58.9  |
| ≥ 14000               | 61.2                       | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3  | 61.3 | 61.3   | 61.3 | 61.3  |
| ≥ 12000               | 63.9                       | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2  | 64.2 | 64.2   | 64.2 | 64.2  |
| ≥ 10000               | 65.7                       | 65.9 | 66.0 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1  | 66.1 | 66.1   | 66.1 | 66.1  |
| ≥ 9000                | 67.6                       | 67.6 | 67.7 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8  | 67.8 | 67.8   | 67.8 | 67.8  |
| ≥ 8000                | 71.9                       | 71.7 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8  | 71.8 | 71.8   | 71.8 | 71.8  |
| ≥ 7000                | 74.3                       | 74.6 | 74.6 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7   | 74.7 | 74.7  |
| ≥ 6000                | 77.1                       | 77.4 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5  | 77.5 | 77.5   | 77.5 | 77.5  |
| ≥ 5000                | 79.9                       | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3  | 80.3 | 80.3   | 80.3 | 80.3  |
| ≥ 4500                | 81.2                       | 81.3 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7   | 81.7 | 81.7  |
| ≥ 4000                | 82.0                       | 83.0 | 83.1 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2  | 83.2 | 83.2   | 83.2 | 83.2  |
| ≥ 3500                | 83.8                       | 84.3 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5   | 84.5 | 84.5  |
| ≥ 3000                | 85.2                       | 85.7 | 85.9 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0  | 86.0 | 86.0   | 86.0 | 86.0  |
| ≥ 2500                | 86.6                       | 87.2 | 87.4 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5  | 87.5 | 87.5   | 87.5 | 87.5  |
| ≥ 2000                | 87.6                       | 88.6 | 88.9 | 89.0 | 89.1 | 89.1 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2  | 89.2 | 89.2   | 89.2 | 89.2  |
| ≥ 1800                | 89.3                       | 89.1 | 89.3 | 89.5 | 89.6 | 89.6 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.7   | 89.7 | 89.7  |
| ≥ 1500                | 89.1                       | 90.2 | 90.4 | 90.6 | 90.7 | 90.8 | 90.8 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9   | 90.9 | 90.9  |
| ≥ 1200                | 90.0                       | 91.4 | 91.7 | 91.9 | 92.0 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.3 | 92.3  | 92.3 | 92.3   | 92.3 | 92.3  |
| ≥ 1000                | 90.8                       | 92.3 | 92.7 | 93.0 | 93.2 | 93.2 | 93.3 | 93.4 | 93.4 | 93.4 | 93.5 | 93.5  | 93.5 | 93.5   | 93.5 | 93.5  |
| ≥ 900                 | 91.1                       | 92.6 | 93.1 | 93.3 | 93.7 | 93.7 | 93.8 | 93.9 | 93.9 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0   | 94.0 | 94.0  |
| ≥ 800                 | 91.6                       | 93.3 | 93.7 | 94.1 | 94.3 | 94.4 | 94.5 | 94.6 | 94.6 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7   | 94.7 | 94.7  |
| ≥ 700                 | 91.7                       | 93.6 | 94.1 | 94.5 | 94.6 | 94.8 | 95.0 | 95.0 | 95.0 | 95.1 | 95.2 | 95.2  | 95.2 | 95.2   | 95.2 | 95.2  |
| ≥ 600                 | 91.9                       | 94.1 | 94.6 | 95.1 | 95.5 | 95.5 | 95.7 | 95.8 | 95.8 | 96.0 | 96.0 | 96.1  | 96.1 | 96.1   | 96.1 | 96.1  |
| ≥ 500                 | 92.1                       | 94.4 | 95.1 | 95.7 | 96.0 | 96.1 | 96.4 | 96.5 | 96.5 | 96.7 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 | 96.8  |
| ≥ 400                 | 92.2                       | 94.6 | 95.3 | 96.0 | 96.4 | 96.5 | 96.8 | 97.0 | 97.0 | 97.2 | 97.4 | 97.4  | 97.5 | 97.5   | 97.6 | 97.6  |
| ≥ 300                 | 92.3                       | 94.9 | 95.6 | 96.3 | 96.8 | 97.0 | 97.3 | 97.6 | 97.6 | 98.0 | 98.1 | 98.1  | 98.2 | 98.2   | 98.4 | 98.5  |
| ≥ 200                 | 92.4                       | 95.0 | 95.8 | 96.5 | 97.0 | 97.2 | 97.6 | 97.9 | 97.9 | 98.1 | 98.3 | 98.6  | 98.8 | 98.9   | 99.1 | 99.3  |
| ≥ 100                 | 92.6                       | 95.1 | 95.8 | 96.5 | 97.0 | 97.2 | 97.6 | 97.9 | 97.9 | 98.4 | 98.6 | 98.8  | 99.0 | 99.0   | 99.4 | 99.8  |
| ≥ 0                   | 92.4                       | 95.1 | 95.8 | 96.5 | 97.0 | 97.2 | 97.6 | 97.9 | 97.9 | 98.4 | 98.6 | 98.7  | 99.0 | 99.1   | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 15608

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

92037  
STATION

COLORADO SPRINGS COLO-PETERSON FD  
STATION NAME

43-47, 49-68  
YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

8090-8.00  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 70.1                       | 70.3 | 70.4 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5  | 70.5 | 70.5  | 70.5 | 70.5 |
| ≥ 20000           | 70.6                       | 70.8 | 70.9 | 71.0 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1 | 71.1  | 71.1 | 71.1  | 71.1 | 71.1 |
| ≥ 18000           | 74.9                       | 75.1 | 75.2 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3  | 75.3 | 75.3  | 75.3 | 75.3 |
| ≥ 16000           | 75.5                       | 75.6 | 75.7 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8  | 75.8 | 75.8  | 75.8 | 75.8 |
| ≥ 14000           | 78.2                       | 78.4 | 78.5 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6  | 78.6 | 78.6  | 78.6 | 78.6 |
| ≥ 12000           | 80.2                       | 80.3 | 80.4 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5  | 80.5 | 80.5  | 80.5 | 80.5 |
| ≥ 10000           | 81.1                       | 81.2 | 81.3 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4  | 81.4 | 81.4  | 81.4 | 81.4 |
| ≥ 9000            | 81.3                       | 81.5 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7  | 81.7 | 81.7 |
| ≥ 8000            | 82.1                       | 82.3 | 82.4 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5  | 82.5 | 82.5  | 82.5 | 82.5 |
| ≥ 7000            | 83.0                       | 83.2 | 83.3 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4  | 83.4 | 83.4  | 83.4 | 83.4 |
| ≥ 6000            | 84.1                       | 84.3 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5  | 84.5 | 84.5 |
| ≥ 5000            | 84.4                       | 84.6 | 84.7 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8 | 84.8  | 84.8 | 84.8 |
| ≥ 4500            | 85.0                       | 85.2 | 85.3 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4  | 85.4 | 85.4  | 85.4 | 85.4 |
| ≥ 4000            | 85.6                       | 85.8 | 85.9 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0  | 86.0 | 86.0  | 86.0 | 86.0 |
| ≥ 3500            | 86.5                       | 86.7 | 86.8 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9  | 86.9 | 86.9  | 86.9 | 86.9 |
| ≥ 3000            | 87.0                       | 87.2 | 87.3 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4  | 87.4 | 87.4  | 87.4 | 87.4 |
| ≥ 2500            | 87.5                       | 87.7 | 87.8 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9 | 87.9  | 87.9 | 87.9 |
| ≥ 2000            | 88.0                       | 88.2 | 88.3 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4  | 88.4 | 88.4  | 88.4 | 88.4 |
| ≥ 1800            | 88.5                       | 88.7 | 88.8 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9  | 88.9 | 88.9  | 88.9 | 88.9 |
| ≥ 1600            | 89.0                       | 89.2 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  | 89.4 | 89.4 |
| ≥ 1500            | 89.5                       | 89.7 | 89.8 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9  | 89.9 | 89.9  | 89.9 | 89.9 |
| ≥ 1200            | 90.0                       | 90.2 | 90.3 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4  | 90.4 | 90.4  | 90.4 | 90.4 |
| ≥ 1000            | 90.5                       | 90.7 | 90.8 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9  | 90.9 | 90.9 |
| ≥ 900             | 91.0                       | 91.2 | 91.3 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4  | 91.4 | 91.4 |
| ≥ 800             | 91.5                       | 91.7 | 91.8 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9  | 91.9 | 91.9  | 91.9 | 91.9 |
| ≥ 700             | 92.0                       | 92.2 | 92.3 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4  | 92.4 | 92.4  | 92.4 | 92.4 |
| ≥ 600             | 92.5                       | 92.7 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9 | 92.9 |
| ≥ 500             | 93.0                       | 93.2 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 | 93.4  | 93.4 | 93.4 |
| ≥ 400             | 93.5                       | 93.7 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9  | 93.9 | 93.9 |
| ≥ 300             | 94.0                       | 94.2 | 94.3 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4  | 94.4 | 94.4  | 94.4 | 94.4 |
| ≥ 200             | 94.5                       | 94.7 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9  | 94.9 | 94.9 |
| ≥ 100             | 95.0                       | 95.2 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4  | 95.4 | 95.4 |
| ≥ 0               | 95.5                       | 95.7 | 95.8 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9 |

TOTAL NUMBER OF OBSERVATIONS

2010

USAF ETAC

FORM  
JUL 64

0-14-5 (OL 1)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLLEGE-PETERSON FC  
STATION NAME

57-47,49-50  
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0360-0200  
HOURS CLUST

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 66.5                       | 66.7 | 66.7 | 66.7 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8 | 66.8  | 66.8 | 66.8   | 66.8 | 66.8 |
| ≥ 20000           | 74.2                       | 74.9 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5  | 74.5 | 74.5   | 74.5 | 74.5 |
| ≥ 18000           | 74.7                       | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9  | 74.9 | 74.9   | 74.9 | 74.9 |
| ≥ 16000           | 74.2                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5  | 74.5 | 74.5   | 74.5 | 74.5 |
| ≥ 14000           | 74.9                       | 77.1 | 77.1 | 77.1 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2  | 77.2 | 77.2   | 77.2 | 77.2 |
| ≥ 12000           | 74.9                       | 79.1 | 79.1 | 79.1 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2  | 79.2 | 79.2   | 79.2 | 79.2 |
| ≥ 10000           | 74.7                       | 79.9 | 79.9 | 79.9 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0  | 80.0 | 80.0   | 80.0 | 80.0 |
| ≥ 9000            | 80.0                       | 80.2 | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3  | 80.3 | 80.3   | 80.3 | 80.3 |
| ≥ 8000            | 80.9                       | 81.1 | 81.1 | 81.1 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2  | 81.2 | 81.2   | 81.2 | 81.2 |
| ≥ 7000            | 81.4                       | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7   | 81.7 | 81.7 |
| ≥ 6000            | 82.0                       | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0  | 82.0 | 82.0   | 82.0 | 82.0 |
| ≥ 5000            | 82.7                       | 84.0 | 84.0 | 84.0 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1   | 84.1 | 84.1 |
| ≥ 4500            | 84.2                       | 84.5 | 84.5 | 84.5 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6   | 84.6 | 84.6 |
| ≥ 4000            | 85.3                       | 85.5 | 85.5 | 85.5 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7  | 85.7 | 85.7   | 85.7 | 85.7 |
| ≥ 3500            | 86.0                       | 86.2 | 86.2 | 86.3 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4  | 86.4 | 86.4   | 86.4 | 86.4 |
| ≥ 3000            | 87.4                       | 87.9 | 88.0 | 88.0 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1   | 88.1 | 88.1 |
| ≥ 2500            | 88.3                       | 88.0 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8   | 88.8 | 88.8 |
| ≥ 2000            | 89.5                       | 89.8 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0   | 90.0 | 90.0 |
| ≥ 1800            | 90.5                       | 90.2 | 90.2 | 90.4 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5  | 90.5 | 90.5   | 90.5 | 90.5 |
| ≥ 1500            | 90.5                       | 91.1 | 91.1 | 91.3 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4   | 91.4 | 91.4 |
| ≥ 1200            | 91.8                       | 92.3 | 92.4 | 92.7 | 92.9 | 92.9 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0  | 93.0 | 93.0   | 93.0 | 93.0 |
| ≥ 1000            | 92.5                       | 93.2 | 93.3 | 93.6 | 94.0 | 94.0 | 94.1 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2  | 94.2 | 94.2   | 94.2 | 94.2 |
| ≥ 900             | 92.8                       | 93.4 | 93.5 | 94.0 | 94.3 | 94.3 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5   | 94.5 | 94.5 |
| ≥ 800             | 92.8                       | 93.7 | 93.9 | 94.3 | 94.6 | 94.6 | 94.7 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8  | 94.8 | 94.8   | 94.8 | 94.8 |
| ≥ 700             | 93.1                       | 94.0 | 94.2 | 94.7 | 95.0 | 95.0 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3   | 95.3 | 95.3 |
| ≥ 600             | 93.3                       | 94.4 | 94.7 | 95.1 | 95.5 | 95.5 | 95.6 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7  | 95.7 | 95.7   | 95.7 | 95.7 |
| ≥ 500             | 93.7                       | 94.6 | 95.1 | 95.6 | 96.0 | 96.0 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4 |
| ≥ 400             | 93.8                       | 95.1 | 95.5 | 96.0 | 96.4 | 96.4 | 96.8 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9   | 96.9 | 96.9 |
| ≥ 300             | 93.9                       | 95.4 | 95.8 | 96.5 | 96.9 | 96.9 | 97.4 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6   | 97.6 | 97.6 |
| ≥ 200             | 94.0                       | 95.4 | 95.8 | 96.5 | 97.0 | 97.0 | 97.4 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6   | 97.6 | 97.6 |
| ≥ 100             | 94.0                       | 95.4 | 95.8 | 96.5 | 97.0 | 97.0 | 97.5 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 0               | 94.0                       | 95.4 | 95.8 | 96.5 | 97.0 | 97.0 | 97.5 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |

TOTAL NUMBER OF OBSERVATIONS

2000

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLU-PETERSON FD  
STATION NAME

73-47,49-46  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.0-0.99  
HOURS (1-24)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 65.5                       | 75.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5  | 65.5 | 65.5  | 65.5 | 65.5 |
| ≥ 20000           | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 18000           | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 16000           | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 14000           | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 12000           | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 10000           | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 9000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 8000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 7000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 6000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 5000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 4500            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 4000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 3500            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 3000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 2500            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 2000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 1800            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 1500            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 1200            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 1000            | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 900             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 800             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 700             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 600             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 500             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 400             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 300             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 200             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 100             | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |
| ≥ 0               | 75.5                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5 |

TOTAL NUMBER OF OBSERVATIONS

2008

USAF ETAC

FORM  
JUL 64

0-14-5(OL 1)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93647  
STATION

COLORADO SPRINGS COLG-PETERSON FD  
STATION NAME

43-97,49-68  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03,00-11,00  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0   |
| NO CEILING        | 64.5                       | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5  | 64.5 | 64.5   | 64.5 | 64.5  |
| ≥ 20000           | 74.8                       | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9  | 74.9 | 74.9   | 74.9 | 74.9  |
| ≥ 18000           | 75.3                       | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4  | 75.4 | 75.4   | 75.4 | 75.4  |
| ≥ 16000           | 76.4                       | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6  | 76.6 | 76.6   | 76.6 | 76.6  |
| ≥ 14000           | 78.0                       | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0  | 79.0 | 79.0   | 79.0 | 79.0  |
| ≥ 12000           | 80.7                       | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9  | 80.9 | 80.9   | 80.9 | 80.9  |
| ≥ 10000           | 81.3                       | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4  | 81.4 | 81.4   | 81.4 | 81.4  |
| ≥ 9000            | 81.8                       | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0  | 82.0 | 82.0   | 82.0 | 82.0  |
| ≥ 8000            | 82.5                       | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7 | 82.7  | 82.7 | 82.7   | 82.7 | 82.7  |
| ≥ 7000            | 84.1                       | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3  | 84.3 | 84.3   | 84.3 | 84.3  |
| ≥ 6000            | 85.5                       | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  | 85.5 | 85.5   | 85.5 | 85.5  |
| ≥ 5000            | 87.0                       | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 | 87.1  |
| ≥ 4500            | 87.6                       | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8 | 87.8   | 87.8 | 87.8  |
| ≥ 4000            | 88.1                       | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2   | 88.2 | 88.2  |
| ≥ 3500            | 89.3                       | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4  |
| ≥ 3000            | 90.7                       | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8   | 90.8 | 90.8  |
| ≥ 2500            | 92.1                       | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4  | 92.4 | 92.4   | 92.4 | 92.4  |
| ≥ 2000            | 94.0                       | 94.1 | 94.1 | 94.1 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2  | 94.2 | 94.2   | 94.2 | 94.2  |
| ≥ 1800            | 94.4                       | 94.5 | 94.5 | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6   | 94.6 | 94.6  |
| ≥ 1500            | 95.5                       | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 | 95.8  |
| ≥ 1200            | 96.5                       | 96.8 | 96.8 | 96.8 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9   | 96.9 | 96.9  |
| ≥ 1000            | 97.0                       | 97.5 | 97.5 | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6   | 97.6 | 97.6  |
| ≥ 900             | 97.1                       | 97.6 | 97.6 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8  |
| ≥ 800             | 97.2                       | 97.8 | 97.8 | 97.8 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0   | 98.0 | 98.0  |
| ≥ 700             | 97.3                       | 98.0 | 98.0 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3  |
| ≥ 600             | 97.7                       | 98.4 | 98.6 | 98.7 | 98.9 | 98.9 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2   | 99.2 | 99.2  |
| ≥ 500             | 97.8                       | 98.6 | 98.7 | 98.9 | 99.0 | 99.1 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 | 99.3  |
| ≥ 400             | 97.8                       | 98.7 | 98.8 | 99.0 | 99.1 | 99.2 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4   | 99.4 | 99.4  |
| ≥ 300             | 97.8                       | 98.7 | 98.9 | 99.1 | 99.3 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 99.5  |
| ≥ 200             | 97.8                       | 98.7 | 98.9 | 99.1 | 99.3 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 99.5  |
| ≥ 100             | 97.8                       | 98.7 | 98.9 | 99.1 | 99.3 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 99.5  |
| ≥ 0               | 97.8                       | 98.7 | 98.9 | 99.1 | 99.3 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2099

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93047  
STATION

COLORADO SPRINGS COLG-PETERSON FLD  
STATION NAME

43-47.49-46  
YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |       |        |        |       |        |         |      |
|-------------------|----------------------------|------|------|------|------|-------|------|-------|-------|-------|--------|--------|-------|--------|---------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.1 | ≥ 0.05 | ≥ 0.025 | ≥ 0  |
| NO CEILING        | 49.2                       | 49.2 | 49.2 | 49.2 | 49.2 | 49.2  | 49.2 | 49.2  | 49.2  | 49.2  | 49.2   | 49.2   | 49.2  | 49.2   | 49.2    | 49.2 |
| ≥ 20000           | 58.0                       | 58.0 | 58.0 | 58.0 | 58.0 | 58.0  | 58.0 | 58.0  | 58.0  | 58.0  | 58.0   | 58.0   | 58.0  | 58.0   | 58.0    | 58.0 |
| ≥ 18000           | 58.6                       | 58.6 | 58.6 | 58.6 | 58.6 | 58.6  | 58.6 | 58.6  | 58.6  | 58.6  | 58.6   | 58.6   | 58.6  | 58.6   | 58.6    | 58.6 |
| ≥ 16000           | 59.9                       | 59.9 | 59.9 | 59.9 | 59.9 | 59.9  | 59.9 | 59.9  | 59.9  | 59.9  | 59.9   | 59.9   | 59.9  | 59.9   | 59.9    | 59.9 |
| ≥ 14000           | 61.7                       | 61.7 | 61.7 | 61.7 | 61.7 | 61.7  | 61.7 | 61.7  | 61.7  | 61.7  | 61.7   | 61.7   | 61.7  | 61.7   | 61.7    | 61.7 |
| ≥ 12000           | 63.5                       | 63.5 | 63.5 | 63.5 | 63.5 | 63.5  | 63.5 | 63.5  | 63.5  | 63.5  | 63.5   | 63.5   | 63.5  | 63.5   | 63.5    | 63.5 |
| ≥ 10000           | 65.1                       | 65.1 | 65.1 | 65.1 | 65.1 | 65.1  | 65.1 | 65.1  | 65.1  | 65.1  | 65.1   | 65.1   | 65.1  | 65.1   | 65.1    | 65.1 |
| ≥ 9000            | 70.0                       | 70.0 | 70.0 | 70.0 | 70.0 | 70.0  | 70.0 | 70.0  | 70.0  | 70.0  | 70.0   | 70.0   | 70.0  | 70.0   | 70.0    | 70.0 |
| ≥ 8000            | 77.1                       | 77.1 | 77.1 | 77.1 | 77.1 | 77.1  | 77.1 | 77.1  | 77.1  | 77.1  | 77.1   | 77.1   | 77.1  | 77.1   | 77.1    | 77.1 |
| ≥ 7000            | 81.5                       | 81.5 | 81.5 | 81.5 | 81.5 | 81.5  | 81.5 | 81.5  | 81.5  | 81.5  | 81.5   | 81.5   | 81.5  | 81.5   | 81.5    | 81.5 |
| ≥ 6000            | 84.9                       | 84.9 | 84.9 | 84.9 | 84.9 | 84.9  | 84.9 | 84.9  | 84.9  | 84.9  | 84.9   | 84.9   | 84.9  | 84.9   | 84.9    | 84.9 |
| ≥ 5000            | 88.1                       | 88.1 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1  | 88.1  | 88.1  | 88.1   | 88.1   | 88.1  | 88.1   | 88.1    | 88.1 |
| ≥ 4500            | 89.3                       | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3  | 89.3  | 89.3  | 89.3   | 89.3   | 89.3  | 89.3   | 89.3    | 89.3 |
| ≥ 4000            | 91.1                       | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1  | 91.1  | 91.1  | 91.1   | 91.1   | 91.1  | 91.1   | 91.1    | 91.1 |
| ≥ 3500            | 92.9                       | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9  | 92.9  | 92.9   | 92.9   | 92.9  | 92.9   | 92.9    | 92.9 |
| ≥ 3000            | 94.6                       | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6  | 94.6  | 94.6   | 94.6   | 94.6  | 94.6   | 94.6    | 94.6 |
| ≥ 2500            | 95.8                       | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8  | 95.8  | 95.8  | 95.8   | 95.8   | 95.8  | 95.8   | 95.8    | 95.8 |
| ≥ 2000            | 97.2                       | 97.2 | 97.2 | 97.2 | 97.2 | 97.2  | 97.2 | 97.2  | 97.2  | 97.2  | 97.2   | 97.2   | 97.2  | 97.2   | 97.2    | 97.2 |
| ≥ 1800            | 97.5                       | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5  | 97.5  | 97.5  | 97.5   | 97.5   | 97.5  | 97.5   | 97.5    | 97.5 |
| ≥ 1500            | 97.7                       | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7  | 97.7  | 97.7  | 97.7   | 97.7   | 97.7  | 97.7   | 97.7    | 97.7 |
| ≥ 1200            | 98.2                       | 98.2 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.2  | 98.2  | 98.2  | 98.2   | 98.2   | 98.2  | 98.2   | 98.2    | 98.2 |
| ≥ 1000            | 98.5                       | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5  | 98.5  | 98.5  | 98.5   | 98.5   | 98.5  | 98.5   | 98.5    | 98.5 |
| ≥ 900             | 98.7                       | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7  | 98.7  | 98.7   | 98.7   | 98.7  | 98.7   | 98.7    | 98.7 |
| ≥ 800             | 98.9                       | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9  | 98.9  | 98.9  | 98.9   | 98.9   | 98.9  | 98.9   | 98.9    | 98.9 |
| ≥ 700             | 99.0                       | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0  | 99.0  | 99.0  | 99.0   | 99.0   | 99.0  | 99.0   | 99.0    | 99.0 |
| ≥ 600             | 99.1                       | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1  | 99.1  | 99.1  | 99.1   | 99.1   | 99.1  | 99.1   | 99.1    | 99.1 |
| ≥ 500             | 99.2                       | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2  | 99.2  | 99.2  | 99.2   | 99.2   | 99.2  | 99.2   | 99.2    | 99.2 |
| ≥ 400             | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3  | 99.3  | 99.3   | 99.3   | 99.3  | 99.3   | 99.3    | 99.3 |
| ≥ 300             | 99.4                       | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4  | 99.4  | 99.4  | 99.4   | 99.4   | 99.4  | 99.4   | 99.4    | 99.4 |
| ≥ 200             | 99.5                       | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5  | 99.5  | 99.5  | 99.5   | 99.5   | 99.5  | 99.5   | 99.5    | 99.5 |
| ≥ 100             | 99.6                       | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6  | 99.6  | 99.6   | 99.6   | 99.6  | 99.6   | 99.6    | 99.6 |
| ≥ 0               | 99.7                       | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7  | 99.7  | 99.7  | 99.7   | 99.7   | 99.7  | 99.7   | 99.7    | 99.7 |

TOTAL NUMBER OF OBSERVATIONS 2010

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

27047  
STATION

COLORADO SPRINGS COLO-PETERSON FO  
STATION NAME

43-47, 49-68  
YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 10 1 2 11  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |       |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|-------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼   | ≥ 0   |
| NO CEILING        | 39.8                       | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8  | 39.8 | 39.8   | 39.8  | 39.8  |
| ≥ 20000           | 49.3                       | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3  | 49.3 | 49.3   | 49.3  | 49.3  |
| ≥ 18000           | 49.9                       | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9  | 49.9 | 49.9   | 49.9  | 49.9  |
| ≥ 16000           | 51.8                       | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8  | 51.8 | 51.8   | 51.8  | 51.8  |
| ≥ 14000           | 55.2                       | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2  | 55.2 | 55.2   | 55.2  | 55.2  |
| ≥ 12000           | 57.5                       | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5  | 57.5 | 57.5   | 57.5  | 57.5  |
| ≥ 10000           | 59.9                       | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9  | 59.9 | 59.9   | 59.9  | 59.9  |
| ≥ 9000            | 65.8                       | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8  | 65.8 | 65.8   | 65.8  | 65.8  |
| ≥ 8000            | 75.1                       | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1   | 75.1  | 75.1  |
| ≥ 7000            | 80.1                       | 80.1 | 80.1 | 80.1 | 80.1 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2  | 80.2 | 80.2   | 80.2  | 80.2  |
| ≥ 6000            | 85.1                       | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1 | 85.2   | 85.2  | 85.2  |
| ≥ 5000            | 88.5                       | 88.5 | 88.5 | 88.5 | 88.5 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6  | 88.6 | 88.6   | 88.6  | 88.6  |
| ≥ 4500            | 90.0                       | 90.0 | 90.0 | 90.0 | 90.0 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1   | 90.1  | 90.1  |
| ≥ 4000            | 92.7                       | 92.7 | 92.7 | 92.7 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8   | 92.8  | 92.8  |
| ≥ 3500            | 94.0                       | 94.0 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.2   | 94.2  | 94.2  |
| ≥ 3000            | 95.2                       | 95.3 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.5   | 95.5  | 95.5  |
| ≥ 2500            | 96.4                       | 96.4 | 96.4 | 96.5 | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.7   | 96.7  | 96.7  |
| ≥ 2000            | 97.3                       | 97.7 | 97.7 | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.1   | 98.1  | 98.1  |
| ≥ 1800            | 97.8                       | 98.0 | 98.1 | 98.2 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4  | 98.4  |
| ≥ 1500            | 98.2                       | 98.4 | 98.4 | 98.5 | 98.6 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.8   | 98.8  | 98.8  |
| ≥ 1200            | 98.3                       | 98.5 | 98.6 | 98.7 | 98.7 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.9 | 98.9  | 98.9 | 98.9   | 98.9  | 98.9  |
| ≥ 1000            | 98.7                       | 98.9 | 99.0 | 99.1 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3  | 99.3  |
| ≥ 900             | 98.8                       | 99.0 | 99.1 | 99.2 | 99.2 | 99.2 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.4   | 99.4  | 99.4  |
| ≥ 800             | 98.8                       | 99.1 | 99.1 | 99.3 | 99.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5  | 99.5  |
| ≥ 700             | 98.8                       | 99.1 | 99.2 | 99.3 | 99.4 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.6   | 99.6  | 99.6  |
| ≥ 600             | 98.8                       | 99.1 | 99.2 | 99.4 | 99.4 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.7   | 99.7  | 99.7  |
| ≥ 500             | 98.8                       | 99.2 | 99.2 | 99.4 | 99.5 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.8   | 99.8  | 99.8  |
| ≥ 400             | 98.9                       | 99.3 | 99.3 | 99.5 | 99.6 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8  | 99.8 | 99.9   | 99.9  | 99.9  |
| ≥ 300             | 98.9                       | 99.3 | 99.3 | 99.5 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 100.0  | 100.0 | 100.0 |
| ≥ 200             | 98.9                       | 99.3 | 99.3 | 99.5 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 100.0  | 100.0 | 100.0 |
| ≥ 100             | 98.9                       | 99.3 | 99.3 | 99.5 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 100.0  | 100.0 | 100.0 |
| ≥ 0               | 98.9                       | 99.3 | 99.3 | 99.5 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 100.0  | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2010

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLLEGE-PETERSON FD  
STATION NAME

43-47,49-58  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

12.0=200.0  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 46.6                       | 47.2 | 47.3 | 47.3 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4  | 47.4 | 47.4   | 47.4 | 47.4 |
| ≥ 20000           | 57.0                       | 58.0 | 58.1 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2  | 58.2 | 58.2   | 58.2 | 58.2 |
| ≥ 18000           | 58.4                       | 58.8 | 58.9 | 58.9 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0  | 59.0 | 59.0   | 59.0 | 59.0 |
| ≥ 16000           | 60.4                       | 60.8 | 60.9 | 60.9 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0  | 61.0 | 61.0   | 61.0 | 61.0 |
| ≥ 14000           | 64.9                       | 65.3 | 65.4 | 65.4 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5 | 65.5  | 65.5 | 65.5   | 65.5 | 65.5 |
| ≥ 12000           | 67.5                       | 67.9 | 68.0 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1  | 68.1 | 68.1   | 68.1 | 68.1 |
| ≥ 10000           | 70.0                       | 70.4 | 70.5 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6  | 70.6 | 70.6   | 70.6 | 70.6 |
| ≥ 9000            | 72.8                       | 73.3 | 73.4 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5  | 73.5 | 73.5   | 73.5 | 73.5 |
| ≥ 8000            | 80.0                       | 80.6 | 80.7 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8 | 80.8   | 80.8 | 80.8 |
| ≥ 7000            | 83.2                       | 83.7 | 83.8 | 83.9 | 83.9 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0   | 84.0 | 84.0 |
| ≥ 6000            | 86.2                       | 86.8 | 86.9 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0  | 87.0 | 87.0   | 87.0 | 87.0 |
| ≥ 5000            | 88.7                       | 89.3 | 89.4 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 | 89.5   | 89.5 | 89.5 |
| ≥ 4500            | 90.3                       | 90.9 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1   | 91.1 | 91.1 |
| ≥ 4000            | 92.2                       | 92.8 | 92.9 | 93.0 | 93.0 | 93.0 | 93.0 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1 | 93.1   | 93.1 | 93.1 |
| ≥ 3500            | 93.8                       | 94.4 | 94.7 | 94.7 | 94.8 | 94.8 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 | 94.9 |
| ≥ 3000            | 95.6                       | 96.4 | 96.5 | 96.5 | 96.6 | 96.6 | 96.6 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7   | 96.7 | 96.7 |
| ≥ 2500            | 96.4                       | 96.4 | 96.5 | 96.5 | 96.6 | 96.6 | 96.6 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7   | 96.7 | 96.7 |
| ≥ 2000            | 96.5                       | 97.3 | 97.6 | 97.6 | 97.7 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 1800            | 96.7                       | 97.7 | 97.8 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0   | 98.0 | 98.0 |
| ≥ 1500            | 97.2                       | 98.2 | 98.3 | 98.4 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6   | 98.6 | 98.6 |
| ≥ 1200            | 97.3                       | 98.0 | 98.7 | 98.8 | 98.9 | 98.9 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0   | 99.0 | 99.0 |
| ≥ 1000            | 97.5                       | 98.7 | 98.9 | 99.0 | 99.1 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2   | 99.2 | 99.2 |
| ≥ 900             | 97.6                       | 98.8 | 99.0 | 99.1 | 99.2 | 99.2 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 | 99.3 |
| ≥ 800             | 97.7                       | 98.8 | 99.1 | 99.1 | 99.3 | 99.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4   | 99.4 | 99.4 |
| ≥ 700             | 97.8                       | 99.0 | 99.2 | 99.3 | 99.4 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 | 99.6 |
| ≥ 600             | 97.8                       | 99.0 | 99.2 | 99.3 | 99.4 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 | 99.6 |
| ≥ 500             | 97.9                       | 99.1 | 99.3 | 99.4 | 99.5 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 400             | 97.9                       | 99.2 | 99.4 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 300             | 97.9                       | 99.2 | 99.4 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 200             | 97.9                       | 99.2 | 99.4 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 100             | 97.9                       | 99.2 | 99.4 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| 0                 | 97.9                       | 99.2 | 99.4 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |

TOTAL NUMBER OF OBSERVATIONS 2010

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

STATION 93037 STATION NAME CULLER-DO SPRINGS (BU-PETLPSO) PD 43-47,49-68 YEARS JAN MONTH 21,9-21,0 HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |         |      |         |         |      |       |       |       |        |       |      |
|-----------------------|----------------------------|------|------|------|------|---------|------|---------|---------|------|-------|-------|-------|--------|-------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2 1/2 | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1  | ≥ 3/4 | ≥ 5/8 | ≥ 1/2 | ≥ 5/16 | ≥ 1/4 | ≥ 0  |
| NO CEILING<br>≥ 20000 | 64.3                       | 74.0 | 64.6 | 64.6 | 64.6 | 64.5    | 64.5 | 64.7    | 64.7    | 64.7 | 64.7  | 64.7  | 64.7  | 64.7   | 64.7  | 64.7 |
| ≥ 18000               | 70.4                       | 70.6 | 70.8 | 70.8 | 70.8 | 70.8    | 70.8 | 70.8    | 70.8    | 70.8 | 70.8  | 70.8  | 70.8  | 70.8   | 70.8  | 70.8 |
| ≥ 16000               | 72.2                       | 72.5 | 72.5 | 72.5 | 72.5 | 72.5    | 72.5 | 72.5    | 72.5    | 72.5 | 72.5  | 72.5  | 72.5  | 72.5   | 72.5  | 72.5 |
| ≥ 14000               | 74.4                       | 74.7 | 74.7 | 74.7 | 74.7 | 74.7    | 74.7 | 74.7    | 74.7    | 74.7 | 74.7  | 74.7  | 74.7  | 74.7   | 74.7  | 74.7 |
| ≥ 12000               | 77.4                       | 77.7 | 77.7 | 77.7 | 77.7 | 77.7    | 77.7 | 77.7    | 77.7    | 77.7 | 77.7  | 77.7  | 77.7  | 77.7   | 77.7  | 77.7 |
| ≥ 10000               | 80.0                       | 80.4 | 80.4 | 80.4 | 80.4 | 80.4    | 80.4 | 80.4    | 80.4    | 80.4 | 80.4  | 80.4  | 80.4  | 80.4   | 80.4  | 80.4 |
| ≥ 9000                | 81.3                       | 81.7 | 81.7 | 81.7 | 81.7 | 81.7    | 81.7 | 81.7    | 81.7    | 81.7 | 81.7  | 81.7  | 81.7  | 81.7   | 81.7  | 81.7 |
| ≥ 8000                | 83.3                       | 83.9 | 83.9 | 83.9 | 83.9 | 83.9    | 83.9 | 83.9    | 83.9    | 83.9 | 83.9  | 83.9  | 83.9  | 83.9   | 83.9  | 83.9 |
| ≥ 7000                | 83.0                       | 85.5 | 85.5 | 85.5 | 85.5 | 85.5    | 85.5 | 85.5    | 85.5    | 85.5 | 85.5  | 85.5  | 85.5  | 85.5   | 85.5  | 85.5 |
| ≥ 6000                | 85.2                       | 86.7 | 86.7 | 86.7 | 86.7 | 86.7    | 86.7 | 86.7    | 86.7    | 86.7 | 86.7  | 86.7  | 86.7  | 86.7   | 86.7  | 86.7 |
| ≥ 5000                | 88.4                       | 88.9 | 88.9 | 88.9 | 88.9 | 88.9    | 88.9 | 88.9    | 88.9    | 88.9 | 88.9  | 88.9  | 88.9  | 88.9   | 88.9  | 88.9 |
| ≥ 4500                | 88.9                       | 89.4 | 89.4 | 89.4 | 89.4 | 89.4    | 89.4 | 89.4    | 89.4    | 89.4 | 89.4  | 89.4  | 89.4  | 89.4   | 89.4  | 89.4 |
| ≥ 4000                | 90.2                       | 90.8 | 90.8 | 90.8 | 90.8 | 90.8    | 90.8 | 90.8    | 90.8    | 90.8 | 90.8  | 90.8  | 90.8  | 90.8   | 90.8  | 90.8 |
| ≥ 3500                | 91.4                       | 91.9 | 91.9 | 91.9 | 91.9 | 91.9    | 91.9 | 91.9    | 91.9    | 91.9 | 91.9  | 91.9  | 91.9  | 91.9   | 91.9  | 91.9 |
| ≥ 3000                | 92.0                       | 92.3 | 92.3 | 92.3 | 92.3 | 92.3    | 92.3 | 92.3    | 92.3    | 92.3 | 92.3  | 92.3  | 92.3  | 92.3   | 92.3  | 92.3 |
| ≥ 2500                | 93.3                       | 94.2 | 94.2 | 94.2 | 94.2 | 94.2    | 94.2 | 94.2    | 94.2    | 94.2 | 94.2  | 94.2  | 94.2  | 94.2   | 94.2  | 94.2 |
| ≥ 2000                | 94.9                       | 95.7 | 95.8 | 95.8 | 95.8 | 95.8    | 95.8 | 95.8    | 95.8    | 95.8 | 95.8  | 95.8  | 95.8  | 95.8   | 95.8  | 95.8 |
| ≥ 1800                | 95.1                       | 95.9 | 96.0 | 96.1 | 96.1 | 96.1    | 96.1 | 96.1    | 96.1    | 96.1 | 96.1  | 96.1  | 96.1  | 96.1   | 96.1  | 96.1 |
| ≥ 1500                | 95.5                       | 96.4 | 96.6 | 96.8 | 96.8 | 96.8    | 96.8 | 96.8    | 96.8    | 96.8 | 96.8  | 96.8  | 96.8  | 96.8   | 96.8  | 96.8 |
| ≥ 1200                | 95.9                       | 96.8 | 97.0 | 97.1 | 97.1 | 97.1    | 97.1 | 97.1    | 97.1    | 97.1 | 97.1  | 97.1  | 97.1  | 97.1   | 97.1  | 97.1 |
| ≥ 1000                | 96.3                       | 97.2 | 97.6 | 97.8 | 97.8 | 97.8    | 97.8 | 97.8    | 97.8    | 97.8 | 97.8  | 97.8  | 97.8  | 97.8   | 97.8  | 97.8 |
| ≥ 900                 | 95.4                       | 97.4 | 97.7 | 97.9 | 97.9 | 97.9    | 97.9 | 97.9    | 97.9    | 97.9 | 97.9  | 97.9  | 97.9  | 97.9   | 97.9  | 97.9 |
| ≥ 800                 | 95.6                       | 97.5 | 97.9 | 98.1 | 98.1 | 98.2    | 98.2 | 98.2    | 98.2    | 98.2 | 98.2  | 98.2  | 98.2  | 98.2   | 98.2  | 98.2 |
| ≥ 700                 | 96.7                       | 97.7 | 98.1 | 98.3 | 98.3 | 98.4    | 98.4 | 98.4    | 98.4    | 98.4 | 98.4  | 98.4  | 98.4  | 98.4   | 98.4  | 98.4 |
| ≥ 600                 | 97.1                       | 98.2 | 98.6 | 98.8 | 98.8 | 98.9    | 98.9 | 98.9    | 98.9    | 98.9 | 98.9  | 98.9  | 98.9  | 98.9   | 98.9  | 98.9 |
| ≥ 500                 | 97.4                       | 98.5 | 98.9 | 99.2 | 99.2 | 99.2    | 99.2 | 99.2    | 99.2    | 99.2 | 99.2  | 99.2  | 99.2  | 99.2   | 99.2  | 99.2 |
| ≥ 400                 | 97.5                       | 98.8 | 99.2 | 99.4 | 99.4 | 99.5    | 99.5 | 99.5    | 99.5    | 99.5 | 99.5  | 99.5  | 99.5  | 99.5   | 99.5  | 99.5 |
| ≥ 300                 | 97.6                       | 98.8 | 99.3 | 99.5 | 99.5 | 99.6    | 99.6 | 99.6    | 99.6    | 99.6 | 99.6  | 99.6  | 99.6  | 99.6   | 99.6  | 99.6 |
| ≥ 200                 | 97.5                       | 98.8 | 99.4 | 99.6 | 99.6 | 99.7    | 99.7 | 99.7    | 99.7    | 99.7 | 99.7  | 99.7  | 99.7  | 99.7   | 99.7  | 99.7 |
| ≥ 100                 | 97.5                       | 98.8 | 99.4 | 99.6 | 99.6 | 99.7    | 99.7 | 99.7    | 99.7    | 99.7 | 99.7  | 99.7  | 99.7  | 99.7   | 99.7  | 99.7 |
| ≥ 0                   | 97.5                       | 98.8 | 99.4 | 99.6 | 99.6 | 99.7    | 99.7 | 99.7    | 99.7    | 99.7 | 99.7  | 99.7  | 99.7  | 99.7   | 99.7  | 99.7 |

TOTAL NUMBER OF OBSERVATIONS 2005

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

STATION 93037 COLORADO SPRINGS GLENN-PETERSON, CO

43-47, 49-66

YEARS

DATE

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 58.3                       | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5 | 58.5  | 58.5 | 58.5   | 58.5 | 58.5 |
| ≥ 20000           | 66.7                       | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9  | 66.9 | 66.9   | 66.9 | 66.9 |
| ≥ 18000           | 67.2                       | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4  | 67.4 | 67.4   | 67.4 | 67.4 |
| ≥ 16000           | 68.3                       | 68.7 | 68.7 | 68.7 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8  | 68.8 | 68.8   | 68.8 | 68.8 |
| ≥ 14000           | 71.1                       | 71.2 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3  | 71.3 | 71.3   | 71.3 | 71.3 |
| ≥ 12000           | 73.3                       | 73.5 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6  | 73.6 | 73.6   | 73.6 | 73.6 |
| ≥ 10000           | 74.9                       | 75.1 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2 | 75.2  | 75.2 | 75.2   | 75.2 | 75.2 |
| ≥ 9000            | 76.9                       | 77.1 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2  | 77.2 | 77.2   | 77.2 | 77.2 |
| ≥ 8000            | 80.3                       | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8 | 80.8   | 80.8 | 80.8 |
| ≥ 7000            | 82.8                       | 83.0 | 83.0 | 83.0 | 83.0 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1  | 83.1 | 83.1   | 83.1 | 83.1 |
| ≥ 6000            | 84.9                       | 85.1 | 85.1 | 85.1 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2  | 85.2 | 85.2   | 85.2 | 85.2 |
| ≥ 5000            | 86.9                       | 87.1 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2  | 87.2 | 87.2   | 87.2 | 87.2 |
| ≥ 4500            | 87.8                       | 88.0 | 88.0 | 88.0 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1   | 88.1 | 88.1 |
| ≥ 4000            | 89.1                       | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4 |
| ≥ 3500            | 90.3                       | 90.6 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7   | 90.7 | 90.7 |
| ≥ 3000            | 91.3                       | 91.9 | 91.9 | 91.9 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0  | 92.0 | 92.0   | 92.0 | 92.0 |
| ≥ 2500            | 92.0                       | 93.0 | 93.0 | 93.0 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1 | 93.1   | 93.1 | 93.1 |
| ≥ 2000            | 93.9                       | 94.3 | 94.4 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5   | 94.5 | 94.5 |
| ≥ 1800            | 94.2                       | 94.6 | 94.7 | 94.8 | 94.8 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 | 94.9 |
| ≥ 1500            | 94.9                       | 95.3 | 95.4 | 95.5 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.7 | 95.7  | 95.7 | 95.7   | 95.7 | 95.7 |
| ≥ 1200            | 95.3                       | 96.1 | 96.2 | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.5 | 96.5 |
| ≥ 1000            | 95.9                       | 96.6 | 96.8 | 96.9 | 97.0 | 97.0 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1   | 97.1 | 97.1 |
| ≥ 900             | 96.1                       | 96.7 | 96.9 | 97.1 | 97.2 | 97.2 | 97.2 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 | 97.3 |
| ≥ 800             | 96.2                       | 97.0 | 97.1 | 97.3 | 97.4 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 97.5 |
| ≥ 700             | 96.4                       | 97.2 | 97.4 | 97.6 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 600             | 96.6                       | 97.5 | 97.7 | 97.9 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.3   | 98.3 | 98.3 |
| ≥ 500             | 96.8                       | 97.7 | 98.0 | 98.2 | 98.4 | 98.4 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6   | 98.7 | 98.7 |
| ≥ 400             | 96.9                       | 97.9 | 98.2 | 98.4 | 98.6 | 98.7 | 98.8 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9   | 98.9 | 98.9 |
| ≥ 300             | 96.9                       | 98.0 | 98.3 | 98.6 | 98.8 | 98.8 | 98.9 | 99.0 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.2   | 99.2 | 99.2 |
| ≥ 200             | 97.0                       | 98.0 | 98.3 | 98.6 | 98.8 | 98.9 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.3   | 99.3 | 99.3 |
| ≥ 100             | 97.0                       | 98.0 | 98.3 | 98.6 | 98.8 | 98.9 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.3   | 99.3 | 99.3 |
| ≥ 0               | 97.0                       | 98.0 | 98.3 | 98.6 | 98.8 | 98.9 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.3   | 99.3 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS 16071

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS (OLD-PETERSON) FO  
STATION NAME

42-47.49-00  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 9  | ≥ 8  | ≥ 7  | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 0  |
| NO CEILING        | 67.8                       | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9  | 67.9 | 67.9 |
| ≥ 20000           | 73.5                       | 73.6 | 73.6 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7  | 73.7 | 73.7 |
| ≥ 18000           | 73.8                       | 73.9 | 73.9 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0  | 74.0 | 74.0 |
| ≥ 16000           | 74.8                       | 74.9 | 74.9 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0 |
| ≥ 14000           | 79.2                       | 79.3 | 79.3 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4  | 79.4 | 79.4 |
| ≥ 12000           | 83.7                       | 83.8 | 83.8 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9  | 83.9 | 83.9 |
| ≥ 10000           | 86.5                       | 86.6 | 86.6 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 9000            | 87.9                       | 88.0 | 88.0 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1 |
| ≥ 8000            | 90.0                       | 90.2 | 90.2 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  | 90.3 | 90.3 |
| ≥ 7000            | 90.3                       | 90.6 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7 |
| ≥ 6000            | 91.7                       | 91.9 | 91.9 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0  | 92.0 | 92.0 |
| ≥ 5000            | 93.2                       | 93.3 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 | 93.4 |
| ≥ 4500            | 93.6                       | 93.6 | 93.6 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7 |
| ≥ 4000            | 94.1                       | 94.2 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3 |
| ≥ 3500            | 94.6                       | 94.7 | 94.7 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8  | 94.8 | 94.8 |
| ≥ 3000            | 94.1                       | 95.3 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4 |
| ≥ 2500            | 95.5                       | 95.7 | 95.7 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8 |
| ≥ 2000            | 96.4                       | 96.6 | 96.6 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7 |
| ≥ 1800            | 96.6                       | 96.8 | 96.8 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9 |
| ≥ 1500            | 97.1                       | 97.3 | 97.3 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4 |
| ≥ 1200            | 97.6                       | 97.8 | 97.8 | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0 |
| ≥ 1000            | 98.0                       | 98.2 | 98.2 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4 |
| ≥ 900             | 98.3                       | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6 |
| ≥ 800             | 98.3                       | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6 |
| ≥ 700             | 98.4                       | 98.6 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 600             | 98.4                       | 98.6 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 500             | 98.6                       | 98.7 | 98.7 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8 |
| ≥ 400             | 98.7                       | 98.8 | 98.8 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9 |
| ≥ 300             | 98.7                       | 98.9 | 98.9 | 99.0 | 99.0 | 99.0 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1 |
| ≥ 200             | 98.7                       | 99.1 | 99.1 | 99.3 | 99.3 | 99.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4 |
| ≥ 100             | 98.7                       | 99.1 | 99.1 | 99.4 | 99.4 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5 |
| ≥ 0               | 98.7                       | 99.1 | 99.1 | 99.4 | 99.4 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5 |

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON F.D.  
SITE NAME

43-47,49-48  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |         |      |         |         |      |       |       |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|---------|------|---------|---------|------|-------|-------|------|
|                   | ≥ 10                       | ≥ 9  | ≥ 8  | ≥ 7  | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2 1/2 | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1  | ≥ 3/4 | ≥ 1/2 | ≥ 0  |
| NO CEILING        | 68.0                       | 58.2 | 68.2 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3 | 68.3    | 68.3 | 68.3    | 68.3    | 68.3 | 68.3  | 68.3  | 68.3 |
| ≥ 20000           | 76.3                       | 76.6 | 76.7 | 76.6 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7    | 76.7 | 76.7    | 76.7    | 76.7 | 76.7  | 76.7  | 76.7 |
| ≥ 18000           | 76.6                       | 76.9 | 76.9 | 76.9 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0    | 77.0 | 77.0    | 77.0    | 77.0 | 77.0  | 77.0  | 77.0 |
| ≥ 16000           | 77.4                       | 77.6 | 77.6 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7    | 77.7 | 77.7    | 77.7    | 77.7 | 77.7  | 77.7  | 77.7 |
| ≥ 14000           | 81.7                       | 81.9 | 81.9 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0    | 82.0 | 82.0    | 82.0    | 82.0 | 82.0  | 82.0  | 82.0 |
| ≥ 12000           | 85.9                       | 86.2 | 86.2 | 86.2 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3    | 86.3 | 86.3    | 86.3    | 86.3 | 86.3  | 86.3  | 86.3 |
| ≥ 10000           | 88.4                       | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8    | 88.8 | 88.8    | 88.8    | 88.8 | 88.8  | 88.8  | 88.8 |
| ≥ 9000            | 89.2                       | 89.5 | 89.5 | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6    | 89.6 | 89.6    | 89.6    | 89.6 | 89.6  | 89.6  | 89.6 |
| ≥ 8000            | 90.0                       | 90.3 | 90.3 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4    | 90.4 | 90.4    | 90.4    | 90.4 | 90.4  | 90.4  | 90.4 |
| ≥ 7000            | 90.3                       | 90.7 | 90.7 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8    | 90.8 | 90.8    | 90.8    | 90.8 | 90.8  | 90.8  | 90.8 |
| ≥ 6000            | 91.1                       | 91.4 | 91.4 | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5    | 91.5 | 91.5    | 91.5    | 91.5 | 91.5  | 91.5  | 91.5 |
| ≥ 5000            | 91.7                       | 92.0 | 92.0 | 92.0 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1    | 92.1 | 92.1    | 92.1    | 92.1 | 92.1  | 92.1  | 92.1 |
| ≥ 4500            | 91.9                       | 92.2 | 92.2 | 92.2 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3    | 92.3 | 92.3    | 92.3    | 92.3 | 92.3  | 92.3  | 92.3 |
| ≥ 4000            | 92.2                       | 92.5 | 92.5 | 92.5 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6    | 92.6 | 92.6    | 92.6    | 92.6 | 92.6  | 92.6  | 92.6 |
| ≥ 3500            | 92.8                       | 93.1 | 93.1 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2    | 93.2 | 93.2    | 93.2    | 93.2 | 93.2  | 93.2  | 93.2 |
| ≥ 3000            | 93.4                       | 93.7 | 93.7 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8    | 93.8 | 93.8    | 93.8    | 93.8 | 93.8  | 93.8  | 93.8 |
| ≥ 2500            | 93.9                       | 94.2 | 94.2 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3    | 94.3 | 94.3    | 94.3    | 94.3 | 94.3  | 94.3  | 94.3 |
| ≥ 2000            | 94.5                       | 94.8 | 94.8 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9    | 94.9 | 94.9    | 94.9    | 94.9 | 94.9  | 94.9  | 94.9 |
| ≥ 1800            | 94.6                       | 95.0 | 95.0 | 95.0 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1    | 95.1 | 95.1    | 95.1    | 95.1 | 95.1  | 95.1  | 95.1 |
| ≥ 1500            | 95.1                       | 95.5 | 95.5 | 95.5 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6    | 95.6 | 95.6    | 95.6    | 95.6 | 95.6  | 95.6  | 95.6 |
| ≥ 1200            | 95.6                       | 96.0 | 96.0 | 96.0 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1    | 96.1 | 96.1    | 96.1    | 96.1 | 96.1  | 96.1  | 96.1 |
| ≥ 1000            | 96.0                       | 96.5 | 96.5 | 96.5 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7    | 96.7 | 96.7    | 96.7    | 96.7 | 96.7  | 96.7  | 96.7 |
| ≥ 900             | 96.1                       | 96.6 | 96.6 | 96.6 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7    | 96.7 | 96.7    | 96.7    | 96.7 | 96.7  | 96.7  | 96.7 |
| ≥ 800             | 96.3                       | 96.9 | 96.9 | 96.9 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0    | 97.0 | 97.0    | 97.0    | 97.0 | 97.0  | 97.0  | 97.0 |
| ≥ 700             | 96.5                       | 97.2 | 97.2 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3    | 97.3 | 97.3    | 97.3    | 97.3 | 97.3  | 97.3  | 97.3 |
| ≥ 600             | 96.6                       | 97.3 | 97.3 | 97.3 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4    | 97.4 | 97.4    | 97.4    | 97.4 | 97.4  | 97.4  | 97.4 |
| ≥ 500             | 96.7                       | 97.5 | 97.5 | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6    | 97.6 | 97.6    | 97.6    | 97.6 | 97.6  | 97.6  | 97.6 |
| ≥ 400             | 96.7                       | 97.6 | 97.6 | 97.6 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7    | 97.7 | 97.7    | 97.7    | 97.7 | 97.7  | 97.7  | 97.7 |
| ≥ 300             | 96.8                       | 97.8 | 97.8 | 97.8 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9    | 97.9 | 97.9    | 97.9    | 97.9 | 97.9  | 97.9  | 97.9 |
| ≥ 200             | 96.8                       | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0    | 98.0 | 98.0    | 98.0    | 98.0 | 98.0  | 98.0  | 98.0 |
| ≥ 100             | 96.8                       | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0    | 98.0 | 98.0    | 98.0    | 98.0 | 98.0  | 98.0  | 98.0 |
| ≥ 0               | 96.9                       | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0    | 98.0 | 98.0    | 98.0    | 98.0 | 98.0  | 98.0  | 98.0 |

TOTAL NUMBER OF OBSERVATIONS: 2074

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

STATION 52017 COLORADO SPRINGS COLT-PETERSON FLD

43-47-49-53

JUL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0400-0500  
HOURS (LST)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |         |         |         |      |       |       |       |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|---------|---------|---------|------|-------|-------|-------|
|                       | ≥ 10                       | ≥ 9  | ≥ 8  | ≥ 7  | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 1/8 | ≥ 1  | ≥ 3/4 | ≥ 5/8 | ≥ 1/2 |
| NO CEILING<br>≥ 20000 | 66.9                       | 67.0 | 67.0 | 67.1 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2 | 67.2    | 67.2    | 67.2    | 67.2 | 67.2  | 67.2  | 67.2  |
| ≥ 18000               | 60.0                       | 60.1 | 60.1 | 60.2 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3    | 60.3    | 60.3    | 60.3 | 60.3  | 60.3  | 60.3  |
| ≥ 16000               | 61.2                       | 61.3 | 61.3 | 61.4 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5    | 61.5    | 61.5    | 61.5 | 61.5  | 61.5  | 61.5  |
| ≥ 14000               | 63.9                       | 64.0 | 64.0 | 64.1 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2    | 64.2    | 64.2    | 64.2 | 64.2  | 64.2  | 64.2  |
| ≥ 12000               | 67.5                       | 67.6 | 67.6 | 67.7 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8    | 67.8    | 67.8    | 67.8 | 67.8  | 67.8  | 67.8  |
| ≥ 10000               | 69.9                       | 70.0 | 70.0 | 70.1 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2    | 70.2    | 70.2    | 70.2 | 70.2  | 70.2  | 70.2  |
| ≥ 9000                | 90.3                       | 90.4 | 90.4 | 90.4 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7    | 90.7    | 90.7    | 90.7 | 90.7  | 90.7  | 90.7  |
| ≥ 8000                | 90.8                       | 90.9 | 90.9 | 91.1 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2    | 91.2    | 91.2    | 91.2 | 91.2  | 91.2  | 91.2  |
| ≥ 7000                | 91.3                       | 91.4 | 91.4 | 91.6 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7    | 91.7    | 91.7    | 91.7 | 91.7  | 91.7  | 91.7  |
| ≥ 6000                | 91.9                       | 92.0 | 92.0 | 92.2 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3    | 92.3    | 92.3    | 92.3 | 92.3  | 92.3  | 92.3  |
| ≥ 5000                | 92.5                       | 92.6 | 92.6 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9    | 92.9    | 92.9    | 92.9 | 92.9  | 92.9  | 92.9  |
| ≥ 4500                | 92.6                       | 92.7 | 92.7 | 92.9 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0    | 93.0    | 93.0    | 93.0 | 93.0  | 93.0  | 93.0  |
| ≥ 4000                | 92.8                       | 92.9 | 92.9 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2    | 93.2    | 93.2    | 93.2 | 93.2  | 93.2  | 93.2  |
| ≥ 3500                | 93.2                       | 93.3 | 93.3 | 93.5 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6    | 93.6    | 93.6    | 93.6 | 93.6  | 93.6  | 93.6  |
| ≥ 3000                | 93.6                       | 93.7 | 93.7 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0    | 94.0    | 94.0    | 94.0 | 94.0  | 94.0  | 94.0  |
| ≥ 2500                | 94.3                       | 94.4 | 94.4 | 94.6 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7    | 94.7    | 94.7    | 94.7 | 94.7  | 94.7  | 94.7  |
| ≥ 2000                | 94.5                       | 94.7 | 94.7 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9    | 94.9    | 94.9    | 94.9 | 94.9  | 94.9  | 94.9  |
| ≥ 1800                | 94.7                       | 94.9 | 94.9 | 95.1 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2    | 95.2    | 95.2    | 95.2 | 95.2  | 95.2  | 95.2  |
| ≥ 1500                | 95.1                       | 95.3 | 95.3 | 95.5 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6    | 95.6    | 95.6    | 95.6 | 95.6  | 95.6  | 95.6  |
| ≥ 1200                | 95.8                       | 96.1 | 96.1 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4    | 96.4    | 96.4    | 96.4 | 96.4  | 96.4  | 96.4  |
| ≥ 1000                | 96.4                       | 96.6 | 96.6 | 97.1 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2    | 97.2    | 97.2    | 97.2 | 97.2  | 97.2  | 97.2  |
| ≥ 900                 | 96.7                       | 97.1 | 97.1 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5    | 97.5    | 97.5    | 97.5 | 97.5  | 97.5  | 97.5  |
| ≥ 800                 | 97.0                       | 97.5 | 97.5 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0    | 98.0    | 98.0    | 98.0 | 98.0  | 98.0  | 98.0  |
| ≥ 700                 | 97.9                       | 98.3 | 98.3 | 98.7 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8    | 98.8    | 98.8    | 98.8 | 98.8  | 98.8  | 98.8  |
| ≥ 600                 | 97.7                       | 98.3 | 98.3 | 98.7 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8    | 98.8    | 98.8    | 98.8 | 98.8  | 98.8  | 98.8  |
| ≥ 500                 | 97.8                       | 98.5 | 98.5 | 98.9 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0    | 99.0    | 99.0    | 99.0 | 99.0  | 99.0  | 99.0  |
| ≥ 400                 | 97.9                       | 98.7 | 98.7 | 99.1 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3    | 99.3    | 99.3    | 99.3 | 99.3  | 99.3  | 99.3  |
| ≥ 300                 | 98.0                       | 98.8 | 98.8 | 99.2 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4    | 99.4    | 99.4    | 99.4 | 99.4  | 99.4  | 99.4  |
| ≥ 200                 | 98.0                       | 98.8 | 98.8 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5    | 99.5    | 99.5    | 99.5 | 99.5  | 99.5  | 99.5  |
| ≥ 100                 | 98.0                       | 98.6 | 98.6 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5    | 99.5    | 99.5    | 99.5 | 99.5  | 99.5  | 99.5  |
| ≥ 0                   | 98.0                       | 98.6 | 98.6 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5    | 99.5    | 99.5    | 99.5 | 99.5  | 99.5  | 99.5  |

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

73037  
STATION

COLORADO SPRINGS COLO-PETERSON FLD  
STATION NAME

53-47,49-56  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0700-1100  
HOURS (LST)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 59.8                       | 49.8 | 69.8 | 69.8 | 59.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9  | 69.9 | 69.9   | 69.9 | 69.9 |
| IV 18000              | 30.2                       | 40.2 | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3 | 80.3  | 80.3 | 80.3   | 80.3 | 80.3 |
| IV 16000              | 31.0                       | 41.0 | 81.0 | 81.0 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1 | 81.1   | 81.1 | 81.1 |
| IV 14000              | 33.9                       | 43.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0   | 84.0 | 84.0 |
| IV 12000              | 37.3                       | 47.3 | 87.3 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4  | 87.4 | 87.4   | 87.4 | 87.4 |
| IV 10000              | 39.3                       | 49.3 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4 |
| IV 9000               | 39.9                       | 49.9 | 89.9 | 90.0 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1   | 90.1 | 90.1 |
| IV 8000               | 91.2                       | 91.2 | 91.2 | 91.2 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3   | 91.3 | 91.3 |
| IV 7000               | 91.2                       | 91.9 | 91.9 | 92.0 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1   | 92.1 | 92.1 |
| IV 6000               | 92.3                       | 92.3 | 92.5 | 92.6 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7   | 92.7 | 92.7 |
| IV 5000               | 93.4                       | 93.4 | 93.5 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6   | 93.6 | 93.6 |
| IV 4500               | 94.1                       | 94.1 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3   | 94.3 | 94.3 |
| IV 4000               | 94.2                       | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3   | 94.3 | 94.3 |
| IV 3500               | 95.2                       | 95.2 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4   | 95.4 | 95.4 |
| IV 3000               | 95.8                       | 95.8 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0   | 96.0 | 96.0 |
| IV 2500               | 96.5                       | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.6   | 96.6 | 96.6 |
| IV 2000               | 97.0                       | 97.0 | 97.0 | 97.1 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2  | 97.2 | 97.2   | 97.2 | 97.2 |
| IV 1800               | 97.3                       | 97.3 | 97.3 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4   | 97.4 | 97.4 |
| IV 1500               | 97.8                       | 97.9 | 97.9 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| IV 1200               | 98.7                       | 98.7 | 98.7 | 98.8 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9   | 98.9 | 98.9 |
| IV 1000               | 99.0                       | 99.2 | 99.2 | 99.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4   | 99.4 | 99.4 |
| IV 900                | 99.0                       | 99.3 | 99.3 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 99.5 |
| IV 800                | 99.2                       | 99.4 | 99.5 | 99.5 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| IV 700                | 99.3                       | 99.6 | 99.7 | 99.7 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 600                | 99.3                       | 99.6 | 99.7 | 99.7 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 500                | 99.3                       | 99.6 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 400                | 99.3                       | 99.6 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 300                | 99.3                       | 99.6 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 200                | 99.3                       | 99.6 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 100                | 99.3                       | 99.6 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| IV 0                  | 99.3                       | 99.6 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FLD  
STATION NAME

93-47,49-68  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1700  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING      | 43.7                       | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7  | 43.7 | 43.7  | 43.7 | 43.7 |
| ≥ 20000         | 52.1                       | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1  | 52.1 | 52.1  | 52.1 | 52.1 |
| ≥ 18000         | 52.3                       | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3 | 52.3  | 52.3 | 52.3 |
| ≥ 16000         | 53.1                       | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1  | 53.1 | 53.1  | 53.1 | 53.1 |
| ≥ 14000         | 55.2                       | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2  | 55.2 | 55.2  | 55.2 | 55.2 |
| ≥ 12000         | 58.2                       | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2  | 58.2 | 58.2  | 58.2 | 58.2 |
| ≥ 10000         | 59.8                       | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8 | 59.8  | 59.8 | 59.8  | 59.8 | 59.8 |
| ≥ 9000          | 65.6                       | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6  | 65.6 | 65.6  | 65.6 | 65.6 |
| ≥ 8000          | 76.0                       | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0  | 76.0 | 76.0  | 76.0 | 76.0 |
| ≥ 7000          | 82.5                       | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5  | 82.5 | 82.5  | 82.5 | 82.5 |
| ≥ 6000          | 88.4                       | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4  | 88.4 | 88.4  | 88.4 | 88.4 |
| ≥ 5000          | 92.0                       | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0  | 92.0 | 92.0  | 92.0 | 92.0 |
| ≥ 4500          | 93.5                       | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 | 93.5 |
| ≥ 4000          | 95.8                       | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8  | 95.8 | 95.8 |
| ≥ 3500          | 96.9                       | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9  | 96.9 | 96.9 |
| ≥ 3000          | 97.6                       | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6  | 97.6 | 97.6 |
| ≥ 2500          | 98.1                       | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1  | 98.1 | 98.1 |
| ≥ 2000          | 98.6                       | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6  | 98.6 | 98.6 |
| ≥ 1800          | 98.7                       | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 1500          | 99.1                       | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1  | 99.1 | 99.1 |
| ≥ 1200          | 99.2                       | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2  | 99.2 | 99.2 |
| ≥ 1000          | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 900           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 800           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 700           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 600           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 500           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 400           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 300           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 200           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 100           | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |
| ≥ 0             | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  | 99.3 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS

2077

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93087  
STATION

COLORADO SPRINGS GOLD-PETERSON FLD  
STATION NAME

43-47, 49-68  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |        |       |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/16 | ≥ 1/8 | ≥ 0  |
| NO CEILING        | 25.7                       | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7   | 25.7  | 25.7 |
| ≥ 20000           | 25.7                       | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7   | 25.7  | 25.7 |
| ≥ 18000           | 35.2                       | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2   | 35.2  | 35.2 |
| ≥ 16000           | 36.0                       | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0   | 36.0  | 36.0 |
| ≥ 14000           | 39.2                       | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2 | 39.2   | 39.2  | 39.2 |
| ≥ 12000           | 43.6                       | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6   | 43.6  | 43.6 |
| ≥ 10000           | 46.5                       | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5   | 46.5  | 46.5 |
| ≥ 9000            | 55.4                       | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4   | 55.4  | 55.4 |
| ≥ 8000            | 72.2                       | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2   | 72.2  | 72.2 |
| ≥ 7000            | 81.7                       | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7   | 81.7  | 81.7 |
| ≥ 6000            | 87.7                       | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7   | 87.7  | 87.7 |
| ≥ 5000            | 91.7                       | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7   | 91.7  | 91.7 |
| ≥ 4500            | 93.9                       | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9   | 93.9  | 93.9 |
| ≥ 4000            | 95.7                       | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7   | 95.7  | 95.7 |
| ≥ 3500            | 96.8                       | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8   | 96.8  | 96.8 |
| ≥ 3000            | 97.5                       | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5   | 97.5  | 97.5 |
| ≥ 2500            | 98.6                       | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6   | 98.6  | 98.6 |
| ≥ 2000            | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3   | 99.3  | 99.3 |
| ≥ 1800            | 99.4                       | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4   | 99.4  | 99.4 |
| ≥ 1500            | 99.5                       | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5   | 99.5  | 99.5 |
| ≥ 1200            | 99.7                       | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7   | 99.7  | 99.7 |
| ≥ 1000            | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 900             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 800             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 700             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 600             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 500             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 400             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 300             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 200             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 100             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |
| ≥ 0               | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8   | 99.8  | 99.8 |

TOTAL NUMBER OF OBSERVATIONS 2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLLEGE-PETERSON, CO  
STATION NAME

47-47.49-1.8  
LATITUDE

YEARS

1961  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1000-2000  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 31.2                       | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2  | 31.2 | 31.2   | 31.2 | 31.2 |
| ≥ 20000           | 42.6                       | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6  | 42.6 | 42.6   | 42.6 | 42.6 |
| ≥ 18000           | 43.2                       | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2  | 43.2 | 43.2   | 43.2 | 43.2 |
| ≥ 16000           | 44.6                       | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6  | 44.6 | 44.6   | 44.6 | 44.6 |
| ≥ 14000           | 49.7                       | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7  | 49.7 | 49.7   | 49.7 | 49.7 |
| ≥ 12000           | 55.1                       | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1  | 55.1 | 55.1   | 55.1 | 55.1 |
| ≥ 10000           | 56.1                       | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1  | 56.1 | 56.1   | 56.1 | 56.1 |
| ≥ 9000            | 65.1                       | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1  | 65.1 | 65.1   | 65.1 | 65.1 |
| ≥ 8000            | 76.9                       | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9  | 76.9 | 76.9   | 76.9 | 76.9 |
| ≥ 7000            | 84.2                       | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2  | 84.2 | 84.2   | 84.2 | 84.2 |
| ≥ 6000            | 89.9                       | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9  | 89.9 | 89.9   | 89.9 | 89.9 |
| ≥ 5000            | 92.7                       | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7   | 92.7 | 92.7 |
| ≥ 4500            | 94.1                       | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1   | 94.1 | 94.1 |
| ≥ 4000            | 95.5                       | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5  | 95.5 | 95.5   | 95.5 | 95.5 |
| ≥ 3500            | 96.9                       | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9   | 96.9 | 96.9 |
| ≥ 3000            | 97.7                       | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7   | 97.7 | 97.7 |
| ≥ 2500            | 97.9                       | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9  | 97.9 | 97.9   | 97.9 | 97.9 |
| ≥ 2000            | 98.7                       | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7   | 98.7 | 98.7 |
| ≥ 1800            | 99.1                       | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1   | 99.1 | 99.1 |
| ≥ 1500            | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 | 99.3 |
| ≥ 1200            | 99.5                       | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 99.5 |
| ≥ 1000            | 99.6                       | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 | 99.6 |
| ≥ 900             | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8  | 99.8 | 99.8   | 99.8 | 99.8 |
| ≥ 800             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 700             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 600             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 500             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 400             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 300             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 200             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 100             | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |
| ≥ 0               | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS

2077

DATA PROCESSING DIVISION  
ETAC, 1514  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLUMBIA SPRINGS COLLEGE-PETERSON, PD  
STATION NAME

43-47,49-50  
YEARS

3-1  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2500  
HOURS (LST)

| CEILING<br>FEET: | VISIBILITY (STATUTE MILES) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4   | ≥ 3   | ≥ 2½  | ≥ 2   | ≥ 1½  | ≥ 1¼  | ≥ 1   | ≥ ¾   | ≥ 5/8 | ≥ ½   | ≥ 3/8 | ≥ 1/4 | ≥ 0   |
| NO CEILING       | 56.0                       | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  |
| ≥ 20000          | 62.3                       | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  |
| ≥ 18000          | 62.9                       | 62.9  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  | 63.0  |
| ≥ 16000          | 64.8                       | 64.8  | 64.9  | 64.9  | 64.9  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  | 65.0  |
| ≥ 14000          | 70.5                       | 70.5  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  | 70.7  |
| ≥ 12000          | 76.2                       | 76.2  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  |
| ≥ 10000          | 79.1                       | 79.1  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  | 79.2  |
| ≥ 9000           | 82.6                       | 82.6  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  | 82.8  |
| ≥ 8000           | 87.4                       | 87.4  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  | 87.6  |
| ≥ 7000           | 90.0                       | 90.0  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  | 90.2  |
| ≥ 6000           | 92.1                       | 92.1  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  |
| ≥ 5000           | 93.5                       | 93.5  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  |
| ≥ 4500           | 94.4                       | 94.4  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  |
| ≥ 4000           | 95.2                       | 95.2  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  |
| ≥ 3500           | 96.3                       | 96.3  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  |
| ≥ 3000           | 96.5                       | 96.5  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  |
| ≥ 2500           | 97.0                       | 97.0  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  |
| ≥ 2000           | 97.2                       | 97.2  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  |
| ≥ 1800           | 97.4                       | 97.4  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  |
| ≥ 1500           | 97.6                       | 97.6  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  |
| ≥ 1200           | 97.8                       | 97.8  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  |
| ≥ 1000           | 98.0                       | 98.0  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  |
| ≥ 900            | 98.2                       | 98.2  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  |
| ≥ 800            | 98.4                       | 98.4  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  | 98.5  |
| ≥ 700            | 98.6                       | 98.6  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  |
| ≥ 600            | 98.8                       | 98.8  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9  |
| ≥ 500            | 99.0                       | 99.0  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| ≥ 400            | 99.2                       | 99.2  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  |
| ≥ 300            | 99.4                       | 99.4  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  |
| ≥ 200            | 99.6                       | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| ≥ 100            | 99.8                       | 99.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| ≥ 0              | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

91037  
STATION

COLORADO SPRINGS COLO-PETERSON FLD  
STATION NAME

43-47,49-68  
YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
NO. OF OLS

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ 0  |
| NO CEILING<br>≥ 20000 | 53.6                       | 53.7 | 53.7 | 53.7 | 53.7 | 53.6 | 53.8 | 53.8 | 53.8 | 53.8 | 53.7 | 53.8  | 53.8 | 53.8   | 53.7 |
| ≥ 18000               | 63.0                       | 63.1 | 63.1 | 63.1 | 63.2 | 63.2 | 63.7 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2  | 63.2 | 63.2   | 63.2 |
| ≥ 16000               | 64.1                       | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2 | 64.2  | 64.2 | 64.2   | 64.2 |
| ≥ 14000               | 74.9                       | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9  | 74.9 | 74.9   | 74.9 |
| ≥ 12000               | 72.2                       | 72.2 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3  | 72.3 | 72.3   | 72.3 |
| ≥ 10000               | 74.7                       | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9  | 74.9 | 74.9   | 74.9 |
| ≥ 9000                | 78.3                       | 78.3 | 78.3 | 78.3 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4  | 78.4 | 78.4   | 78.4 |
| ≥ 8000                | 84.3                       | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5   | 84.5 |
| ≥ 7000                | 87.8                       | 87.9 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0   | 88.0 |
| ≥ 6000                | 90.8                       | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8   | 90.8 |
| ≥ 5000                | 92.8                       | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8   | 92.8 |
| ≥ 4500                | 93.8                       | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8   | 93.8 |
| ≥ 4000                | 94.8                       | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8  | 94.8 | 94.8   | 94.8 |
| ≥ 3500                | 95.8                       | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 |
| ≥ 3000                | 96.8                       | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 |
| ≥ 2500                | 96.8                       | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 |
| ≥ 2000                | 97.3                       | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 |
| ≥ 1800                | 97.3                       | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 |
| ≥ 1500                | 97.3                       | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 |
| ≥ 1200                | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 1000                | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 900                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 800                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 700                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 600                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 500                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 400                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 300                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 200                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| ≥ 100                 | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |
| 0                     | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 |

TOTAL NUMBER OF OBSERVATIONS 18608

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLUMBIA SPRINGS COIL-PETERSON FG  
STATION NAME

43-47,49-68  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0000  
COUNT

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |       |      |       |      |       |      |       |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|
|                   | ≥ 10                       | ≥ 9  | ≥ 8  | ≥ 7  | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ 0  |
| NO CEILING        | 79.2                       | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4  | 70.4 | 70.4  | 70.4 | 70.4  | 70.4 | 70.4  | 70.4 |
| ≥ 20000           | 75.0                       | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 |
| ≥ 18000           | 75.1                       | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3  | 75.3 | 75.3  | 75.3 | 75.3  | 75.3 | 75.3  | 75.3 |
| ≥ 16000           | 75.3                       | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 | 75.5  | 75.5 |
| ≥ 14000           | 60.5                       | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7  | 60.7 | 60.7  | 60.7 | 60.7  | 60.7 | 60.7  | 60.7 |
| ≥ 12000           | 54.7                       | 54.9 | 54.9 | 54.9 | 54.9 | 54.9 | 54.9 | 54.9 | 54.9  | 54.9 | 54.9  | 54.9 | 54.9  | 54.9 | 54.9  | 54.9 |
| ≥ 10000           | 47.3                       | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5 | 47.5  | 47.5 | 47.5  | 47.5 | 47.5  | 47.5 | 47.5  | 47.5 |
| IV 9000           | 48.5                       | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5  | 48.5 | 48.5  | 48.5 | 48.5  | 48.5 | 48.5  | 48.5 |
| IV 8000           | 49.8                       | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8  | 49.8 | 49.8  | 49.8 | 49.8  | 49.8 | 49.8  | 49.8 |
| IV 7000           | 50.7                       | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7 | 50.7  | 50.7 | 50.7  | 50.7 | 50.7  | 50.7 | 50.7  | 50.7 |
| IV 6000           | 91.2                       | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5 | 91.5  | 91.5 | 91.5  | 91.5 | 91.5  | 91.5 |
| IV 5000           | 92.0                       | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0  | 92.0 | 92.0  | 92.0 | 92.0  | 92.0 | 92.0  | 92.0 |
| IV 4500           | 92.4                       | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4  | 92.4 | 92.4  | 92.4 | 92.4  | 92.4 | 92.4  | 92.4 |
| IV 4000           | 92.7                       | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7  | 92.7 | 92.7  | 92.7 | 92.7  | 92.7 |
| IV 3500           | 93.1                       | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1 | 93.1  | 93.1 | 93.1  | 93.1 | 93.1  | 93.1 |
| IV 3000           | 93.2                       | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 |
| IV 2500           | 93.6                       | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6  | 93.6 | 93.6  | 93.6 | 93.6  | 93.6 |
| IV 2000           | 94.0                       | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0  | 94.0 | 94.0  | 94.0 | 94.0  | 94.0 |
| IV 1800           | 94.7                       | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7  | 94.7 | 94.7  | 94.7 | 94.7  | 94.7 |
| IV 1500           | 95.0                       | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0 | 95.0  | 95.0 | 95.0  | 95.0 | 95.0  | 95.0 |
| IV 1200           | 95.2                       | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2  | 95.2 | 95.2  | 95.2 | 95.2  | 95.2 | 95.2  | 95.2 |
| IV 1000           | 95.5                       | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5  | 95.5 | 95.5  | 95.5 | 95.5  | 95.5 | 95.5  | 95.5 |
| IV 900            | 95.7                       | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7  | 95.7 | 95.7  | 95.7 | 95.7  | 95.7 | 95.7  | 95.7 |
| IV 800            | 95.9                       | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 |
| IV 700            | 96.1                       | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1  | 96.1 | 96.1  | 96.1 | 96.1  | 96.1 | 96.1  | 96.1 |
| IV 600            | 96.3                       | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3  | 96.3 | 96.3  | 96.3 | 96.3  | 96.3 | 96.3  | 96.3 |
| IV 500            | 96.5                       | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5  | 96.5 | 96.5  | 96.5 | 96.5  | 96.5 |
| IV 400            | 96.7                       | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7  | 96.7 | 96.7  | 96.7 | 96.7  | 96.7 |
| IV 300            | 96.9                       | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9  | 96.9 | 96.9  | 96.9 | 96.9  | 96.9 |
| IV 200            | 97.1                       | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1  | 97.1 | 97.1  | 97.1 | 97.1  | 97.1 |
| IV 100            | 97.3                       | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3  | 97.3 | 97.3  | 97.3 | 97.3  | 97.3 |
| IV 0              | 97.5                       | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5  | 97.5 | 97.5  | 97.5 | 97.5  | 97.5 |

TOTAL NUMBER OF OBSERVATIONS 2076

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037 COLORADO SPRINGS COLE-PETERSON FG 43-47,49-AB

AYC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2 51.13-75.77  
HOURS (U.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0   |
| NO CEILING<br>≥ 20000 | 59.7                       | 59.9 | 70.0 | 70.0 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1  | 70.1 | 70.1   | 70.1 | 70.1  |
| ≥ 18000               | 76.3                       | 76.5 | 76.5 | 76.5 | 76.6 | 76.6 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7  | 76.7 | 76.7   | 76.7 | 76.7  |
| ≥ 16000               | 77.9                       | 77.7 | 77.7 | 77.7 | 77.8 | 77.8 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9  | 77.9 | 77.9   | 77.9 | 77.9  |
| ≥ 14000               | 80.8                       | 81.0 | 81.0 | 81.0 | 81.1 | 81.1 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2 | 81.2  | 81.2 | 81.2   | 81.2 | 81.3  |
| ≥ 12000               | 85.0                       | 85.3 | 85.3 | 85.3 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4  | 85.4 | 85.4   | 85.4 | 85.5  |
| ≥ 10000               | 87.8                       | 88.0 | 88.0 | 88.0 | 88.1 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2   | 88.2 | 88.3  |
| ≥ 9000                | 88.3                       | 88.5 | 88.6 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7  | 88.7 | 88.7   | 88.7 | 88.8  |
| ≥ 8000                | 88.9                       | 89.1 | 89.2 | 89.2 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3   | 89.3 | 89.4  |
| ≥ 7000                | 89.5                       | 89.6 | 89.8 | 89.8 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0   | 90.0 | 90.1  |
| ≥ 6000                | 90.2                       | 90.1 | 90.1 | 90.1 | 90.2 | 90.2 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  | 90.3 | 90.3   | 90.3 | 90.4  |
| ≥ 5000                | 90.1                       | 90.3 | 90.4 | 90.4 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5  | 90.5 | 90.5   | 90.5 | 90.6  |
| ≥ 4500                | 90.2                       | 90.5 | 90.5 | 90.5 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7   | 90.7 | 90.7  |
| ≥ 4000                | 90.2                       | 90.7 | 90.7 | 90.7 | 90.8 | 90.8 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9   | 90.9 | 91.0  |
| ≥ 3500                | 90.8                       | 91.1 | 91.1 | 91.1 | 91.2 | 91.2 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3   | 91.3 | 91.4  |
| ≥ 3000                | 91.0                       | 91.9 | 91.9 | 91.9 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0  | 92.0 | 92.0   | 92.1 | 92.1  |
| ≥ 2500                | 92.0                       | 92.3 | 92.3 | 92.3 | 92.4 | 92.4 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5   | 92.5 | 92.6  |
| ≥ 2000                | 92.2                       | 92.6 | 92.7 | 92.7 | 92.8 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9   | 92.9 | 93.0  |
| ≥ 1800                | 92.3                       | 92.7 | 92.8 | 92.8 | 92.9 | 92.9 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0  | 93.0 | 93.0   | 93.0 | 93.1  |
| ≥ 1500                | 92.5                       | 93.0 | 93.1 | 93.2 | 93.3 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 | 93.4   | 93.4 | 93.5  |
| ≥ 1200                | 92.9                       | 93.4 | 93.6 | 93.7 | 93.8 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 | 94.0  |
| ≥ 1000                | 93.1                       | 93.7 | 93.8 | 93.9 | 94.0 | 94.0 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2  | 94.2 | 94.2   | 94.2 | 94.3  |
| ≥ 900                 | 93.4                       | 94.0 | 94.2 | 94.3 | 94.4 | 94.4 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6   | 94.6 | 94.7  |
| ≥ 800                 | 93.5                       | 94.3 | 94.6 | 94.7 | 94.7 | 94.7 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 | 95.0  |
| ≥ 700                 | 93.7                       | 94.6 | 94.9 | 95.0 | 95.1 | 95.1 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3   | 95.3 | 95.4  |
| ≥ 600                 | 94.1                       | 95.0 | 95.3 | 95.4 | 95.5 | 95.5 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7  | 95.7 | 95.7   | 95.7 | 95.8  |
| ≥ 500                 | 94.2                       | 95.3 | 95.6 | 95.7 | 95.8 | 95.8 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1  | 96.1 | 96.1   | 96.1 | 96.3  |
| ≥ 400                 | 94.4                       | 95.7 | 96.0 | 96.3 | 96.3 | 96.5 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7 | 96.7   | 96.7 | 97.1  |
| ≥ 300                 | 94.6                       | 96.0 | 96.4 | 96.9 | 97.0 | 97.1 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 98.0  |
| ≥ 200                 | 94.6                       | 96.0 | 96.5 | 97.1 | 97.3 | 97.4 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0   | 98.0 | 98.8  |
| ≥ 100                 | 94.6                       | 96.0 | 96.5 | 97.1 | 97.3 | 97.4 | 97.9 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 99.2  |
| ≥ 0                   | 94.6                       | 96.0 | 96.5 | 97.1 | 97.3 | 97.4 | 97.9 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS

2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037 COLORADO SPRINGS COLDFETERSON FD

43-47,49-66

AJC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1610-0450  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 63.3                     | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3  | 63.3 | 63.3  | 63.3 | 63.3 |
| ≥ 20000           | 74.2                     | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6  | 74.6 | 74.6  | 74.6 | 74.6 |
| ≥ 18000           | 75.2                     | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3  | 75.3 | 75.3  | 75.3 | 75.3 |
| ≥ 16000           | 77.0                     | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0  | 77.0 | 77.0 |
| ≥ 14000           | 80.9                     | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9  | 80.9 | 80.9  | 80.9 | 80.9 |
| ≥ 12000           | 84.5                     | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5  | 84.5 | 84.5 |
| IV 10000          | 87.3                     | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3  | 87.3 | 87.3  | 87.3 | 87.3 |
| 9000              | 88.2                     | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2  | 88.2 | 88.2 |
| IV 8000           | 89.4                     | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  | 89.4 | 89.4 |
| 7000              | 90.0                     | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0  | 90.0 | 90.0 |
| IV 6000           | 90.7                     | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7  | 90.7 | 90.7 |
| 5000              | 90.9                     | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9  | 90.9 | 90.9 |
| IV 4500           | 91.1                     | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1  | 91.1 | 91.1 |
| 4000              | 91.3                     | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3  | 91.3 | 91.3 |
| IV 3500           | 91.7                     | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  | 91.7 | 91.7  | 91.7 | 91.7 |
| 3000              | 91.9                     | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9  | 91.9 | 91.9  | 91.9 | 91.9 |
| IV 2500           | 92.1                     | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1  | 92.1 | 92.1 |
| 2000              | 92.3                     | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3  | 92.3 | 92.3  | 92.3 | 92.3 |
| IV 1800           | 92.5                     | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 | 92.5 |
| 1500              | 92.7                     | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7  | 92.7 | 92.7 |
| IV 1200           | 92.9                     | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9  | 92.9 | 92.9 |
| 1000              | 93.1                     | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1 | 93.1  | 93.1 | 93.1 |
| IV 900            | 93.3                     | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 | 93.3 |
| 800               | 93.5                     | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 | 93.5 |
| IV 700            | 93.7                     | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7  | 93.7 | 93.7 |
| 600               | 93.9                     | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9  | 93.9 | 93.9 |
| IV 500            | 94.1                     | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1 |
| 400               | 94.3                     | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3  | 94.3 | 94.3 |
| IV 300            | 94.5                     | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5  | 94.5 | 94.5 |
| 200               | 94.7                     | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7  | 94.7 | 94.7 |
| IV 100            | 94.9                     | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9  | 94.9 | 94.9 |
| 0                 | 95.1                     | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  | 95.1 | 95.1 |

TOTAL NUMBER OF OBSERVATIONS 2074

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

## CEILING VERSUS VISIBILITY

94037  
STATIONCOLUMBIAN SPRINGS COLD-PETERSON FD  
STATION NAME43-47-49-55  
YEARSAJG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0   |
| NO CEILING        | 64.5                       | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5  | 64.5 | 64.5   | 64.5 | 64.5  |
| ≥ 20000           | 75.4                       | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4  | 76.4 | 76.4   | 76.4 | 76.4  |
| IV 18000          | 77.4                       | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4  | 77.4 | 77.4   | 77.4 | 77.4  |
| IV 15000          | 78.4                       | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4  | 78.4 | 78.4   | 78.4 | 78.4  |
| IV 14000          | 82.8                       | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  | 82.8 | 82.8   | 82.8 | 82.8  |
| IV 12000          | 86.7                       | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7   | 86.7 | 86.7  |
| IV 10000          | 88.5                       | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5   | 88.5 | 88.5  |
| IV 9000           | 89.3                       | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3   | 89.3 | 89.3  |
| IV 8000           | 90.4                       | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4  | 90.4 | 90.4   | 90.4 | 90.4  |
| IV 7000           | 91.2                       | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2  | 91.2 | 91.2   | 91.2 | 91.2  |
| IV 6000           | 91.8                       | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8   | 91.8 | 91.8  |
| IV 5000           | 92.6                       | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6   | 92.6 | 92.6  |
| IV 4500           | 93.0                       | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0  | 93.0 | 93.0   | 93.0 | 93.0  |
| IV 4000           | 93.2                       | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 | 93.2  |
| IV 3500           | 93.8                       | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8   | 93.8 | 93.8  |
| IV 3000           | 94.3                       | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3   | 94.3 | 94.3  |
| IV 2500           | 95.0                       | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0 | 95.0   | 95.0 | 95.0  |
| IV 2000           | 95.8                       | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 | 95.8  |
| IV 1800           | 96.1                       | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1  | 96.1 | 96.1   | 96.1 | 96.1  |
| IV 1500           | 96.6                       | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.6   | 96.6 | 96.6  |
| IV 1200           | 97.3                       | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 | 97.3  |
| IV 1000           | 97.8                       | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8  |
| IV 900            | 98.1                       | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1  |
| IV 800            | 98.4                       | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4   | 98.4 | 98.4  |
| IV 700            | 98.6                       | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6   | 98.6 | 98.6  |
| IV 600            | 98.9                       | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9   | 98.9 | 98.9  |
| IV 500            | 99.1                       | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1   | 99.1 | 99.1  |
| IV 400            | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 | 99.3  |
| IV 300            | 99.5                       | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 | 99.5  |
| IV 200            | 99.6                       | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 | 99.6  |
| IV 100            | 99.8                       | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8  | 99.8 | 99.8   | 99.8 | 99.8  |
| IV 0              | 99.9                       | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9  | 99.9 | 99.9   | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2073

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FD  
STATION NAME

43-47,49-06  
YEARS

12  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12061950  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  |
| NO CEILING        | 45.8                       | 45.0 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8  | 45.8 | 45.8   | 45.8 |
| ≥ 20000           | 55.4                       | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4  | 56.4 | 56.4   | 56.4 |
| ≥ 18000           | 57.0                       | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0 | 57.0  | 57.0 | 57.0   | 57.0 |
| ≥ 16000           | 57.9                       | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9  | 57.9 | 57.9   | 57.9 |
| ≥ 14000           | 61.0                       | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0  | 61.0 | 61.0   | 61.0 |
| ≥ 12000           | 62.7                       | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7  | 62.7 | 62.7   | 62.7 |
| ≥ 10000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9  | 64.9 | 64.9   | 64.9 |
| ≥ 9000            | 69.7                       | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7 | 69.7  | 69.7 | 69.7   | 69.7 |
| ≥ 8000            | 79.2                       | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2  | 79.2 | 79.2   | 79.2 |
| ≥ 7000            | 84.7                       | 84.7 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8 | 84.8   | 84.8 |
| ≥ 6000            | 89.0                       | 89.0 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1  | 89.1 | 89.1   | 89.1 |
| ≥ 5000            | 91.5                       | 91.6 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  | 91.7 | 91.7   | 91.7 |
| ≥ 4500            | 92.6                       | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6   | 92.6 |
| ≥ 4000            | 94.1                       | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3   | 94.3 |
| ≥ 3500            | 94.9                       | 95.0 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2  | 95.2 | 95.2   | 95.2 |
| ≥ 3000            | 96.3                       | 96.4 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.6   | 96.6 |
| ≥ 2500            | 97.2                       | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 |
| ≥ 2000            | 97.6                       | 97.8 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 |
| ≥ 1800            | 97.7                       | 97.8 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 |
| ≥ 1500            | 98.0                       | 98.2 | 98.3 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6   | 98.6 |
| ≥ 1200            | 98.2                       | 98.2 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7   | 98.7 |
| ≥ 1000            | 98.3                       | 98.6 | 98.8 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9   | 98.9 |
| ≥ 900             | 98.4                       | 98.8 | 99.0 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1   | 99.1 |
| ≥ 800             | 98.5                       | 98.9 | 99.1 | 99.2 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 |
| ≥ 700             | 98.6                       | 99.0 | 99.2 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4   | 99.4 |
| ≥ 600             | 98.6                       | 99.0 | 99.2 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4  | 99.4 | 99.4   | 99.4 |
| ≥ 500             | 98.8                       | 99.1 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5 | 99.5   | 99.5 |
| ≥ 400             | 98.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 300             | 98.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 200             | 98.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 100             | 98.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |
| ≥ 0               | 98.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 |

TOTAL NUMBER OF OBSERVATIONS

2077

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037

COLORADO SPRINGS COLD-PETERSON FD

43-47, 49-58

AUG

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1990-1990  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |       |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 4/8 | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 31.6                       | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6  | 31.6  | 31.6   | 31.6 | 31.6 |
| ≥ 20000           | 42.2                       | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2  | 42.2  | 42.2   | 42.2 | 42.2 |
| ≥ 18000           | 42.3                       | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3  | 42.3   | 42.3 | 42.3 |
| ≥ 16000           | 43.3                       | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3 | 43.3  | 43.3  | 43.3   | 43.3 | 43.3 |
| ≥ 14000           | 48.1                       | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1  | 48.1  | 48.1   | 48.1 | 48.1 |
| ≥ 12000           | 51.8                       | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8  | 51.8  | 51.8   | 51.8 | 51.8 |
| ≥ 10000           | 53.9                       | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2  | 54.2  | 54.2   | 54.2 | 54.2 |
| ≥ 9000            | 60.9                       | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9  | 60.9  | 60.9   | 60.9 | 60.9 |
| ≥ 8000            | 73.7                       | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0  | 74.0  | 74.0   | 74.0 | 74.0 |
| ≥ 7000            | 81.3                       | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6  | 81.6  | 81.6   | 81.6 | 81.6 |
| ≥ 6000            | 87.9                       | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9  | 87.9   | 87.9 | 87.9 |
| ≥ 5000            | 91.2                       | 91.6 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  | 91.7  | 91.7   | 91.7 | 91.7 |
| ≥ 4500            | 92.7                       | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2  | 93.2   | 93.2 | 93.2 |
| ≥ 4000            | 94.4                       | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9  | 94.9   | 94.9 | 94.9 |
| ≥ 3500            | 95.4                       | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0  | 96.0   | 96.0 | 96.0 |
| ≥ 3000            | 96.3                       | 96.9 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0  | 97.0  | 97.0   | 97.0 | 97.0 |
| ≥ 2500            | 96.8                       | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5  | 97.5   | 97.5 | 97.5 |
| ≥ 2000            | 97.2                       | 97.8 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1   | 98.1 | 98.1 |
| ≥ 1800            | 97.2                       | 97.8 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1   | 98.1 | 98.1 |
| ≥ 1500            | 97.3                       | 98.3 | 98.3 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7  | 98.7   | 98.7 | 98.7 |
| ≥ 1200            | 97.4                       | 98.5 | 98.7 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9  | 98.9   | 98.9 | 98.9 |
| ≥ 1000            | 97.4                       | 98.5 | 98.7 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9  | 98.9   | 98.9 | 98.9 |
| ≥ 900             | 97.5                       | 98.7 | 98.8 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0  | 99.0   | 99.0 | 99.0 |
| ≥ 800             | 97.5                       | 98.7 | 98.9 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2  | 99.2   | 99.2 | 99.2 |
| ≥ 700             | 97.8                       | 99.0 | 99.2 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5  | 99.5   | 99.5 | 99.5 |
| ≥ 600             | 97.8                       | 99.0 | 99.2 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  | 99.5  | 99.5   | 99.5 | 99.5 |
| ≥ 500             | 97.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6 | 99.6 |
| ≥ 400             | 97.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6 | 99.6 |
| ≥ 300             | 97.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6 | 99.6 |
| ≥ 200             | 97.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6 | 99.6 |
| ≥ 100             | 97.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6 | 99.6 |
| ≥ 0               | 97.8                       | 99.1 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6 | 99.6 |

TOTAL NUMBER OF OBSERVATIONS

2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON F3  
STATION NAME

43-47-49-68  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 38.8                       | 38.9 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0  | 39.0 | 39.0   | 39.0 | 39.0 |
| ≥ 20000           | 48.6                       | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6  | 48.6 | 48.6   | 48.6 | 48.6 |
| ≥ 18000           | 48.9                       | 49.0 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1  | 49.1 | 49.1   | 49.1 | 49.1 |
| ≥ 16000           | 50.2                       | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4  | 50.4 | 50.4   | 50.4 | 50.4 |
| ≥ 14000           | 56.1                       | 56.2 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 56.3  | 56.3 | 56.3   | 56.3 | 56.3 |
| ≥ 12000           | 60.6                       | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.8 | 60.8 | 60.8 | 60.8 | 60.8  | 60.8 | 60.8   | 60.8 | 60.8 |
| ≥ 10000           | 64.7                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0  | 65.0 | 65.0   | 65.0 | 65.0 |
| ≥ 9000            | 69.9                       | 70.0 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1  | 70.1 | 70.1   | 70.1 | 70.1 |
| ≥ 8000            | 79.3                       | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6  | 79.6 | 79.6   | 79.6 | 79.6 |
| ≥ 7000            | 84.6                       | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8 | 84.8   | 84.8 | 84.8 |
| ≥ 6000            | 89.0                       | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4 |
| ≥ 5000            | 92.0                       | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6   | 92.6 | 92.6 |
| ≥ 4500            | 93.1                       | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7   | 93.7 | 93.7 |
| ≥ 4000            | 94.2                       | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0 | 95.0   | 95.0 | 95.0 |
| ≥ 3500            | 95.0                       | 95.7 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9   | 95.9 | 95.9 |
| ≥ 3000            | 95.8                       | 96.3 | 96.5 | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.6   | 96.6 | 96.6 |
| ≥ 2500            | 96.8                       | 96.6 | 96.8 | 96.8 | 96.8 | 96.8 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0  | 97.0 | 97.0   | 97.0 | 97.0 |
| ≥ 2000            | 96.0                       | 96.9 | 97.1 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 | 97.3 |
| ≥ 1800            | 96.2                       | 97.1 | 97.3 | 97.3 | 97.4 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 97.5 |
| ≥ 1500            | 96.5                       | 97.5 | 97.7 | 97.7 | 97.8 | 97.8 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9  | 97.9 | 97.9   | 97.9 | 97.9 |
| ≥ 1200            | 97.7                       | 97.8 | 98.0 | 98.0 | 98.1 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.2   | 98.2 | 98.2 |
| ≥ 1000            | 96.8                       | 97.9 | 98.1 | 98.2 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 900             | 96.9                       | 98.0 | 98.2 | 98.3 | 98.4 | 98.4 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6  | 98.6 | 98.6   | 98.6 | 98.6 |
| ≥ 800             | 97.0                       | 98.1 | 98.3 | 98.4 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8   | 98.8 | 98.8 |
| ≥ 700             | 97.1                       | 98.2 | 98.4 | 98.5 | 98.7 | 98.7 | 98.8 | 98.8 | 98.8 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0   | 99.0 | 99.0 |
| ≥ 600             | 97.2                       | 98.4 | 98.6 | 98.7 | 98.9 | 98.9 | 99.0 | 99.0 | 99.0 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2   | 99.2 | 99.2 |
| ≥ 500             | 97.2                       | 98.5 | 98.7 | 98.8 | 99.0 | 99.0 | 99.1 | 99.1 | 99.1 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 | 99.3 |
| ≥ 400             | 97.3                       | 98.5 | 98.7 | 98.9 | 99.1 | 99.1 | 99.2 | 99.2 | 99.2 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6   | 99.6 | 99.6 |
| ≥ 300             | 97.3                       | 98.5 | 98.7 | 99.0 | 99.1 | 99.2 | 99.3 | 99.3 | 99.3 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 200             | 97.3                       | 98.5 | 98.8 | 99.1 | 99.2 | 99.3 | 99.3 | 99.5 | 99.5 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 100             | 97.3                       | 98.5 | 98.8 | 99.1 | 99.2 | 99.3 | 99.3 | 99.5 | 99.5 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |
| ≥ 0               | 97.3                       | 98.6 | 98.8 | 99.1 | 99.2 | 99.3 | 99.3 | 99.5 | 99.5 | 99.7 | 99.7 | 99.7  | 99.7 | 99.7   | 99.7 | 99.7 |

TOTAL NUMBER OF OBSERVATIONS 4075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

97047  
STATION

Chillicothe Springs COGS-PETERSBURG  
STATION NAME

43-47, 49-00  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11-0-7-0  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 59.5                       | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6  | 59.6 | 59.6   | 59.6 | 59.6 |
| ≥ 20000           | 59.5                       | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6  | 59.6 | 59.6   | 59.6 | 59.6 |
| ≥ 18000           | 66.5                       | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5  | 66.5 | 66.5   | 66.5 | 66.5 |
| ≥ 16000           | 66.5                       | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5  | 66.5 | 66.5   | 66.5 | 66.5 |
| ≥ 14000           | 73.4                       | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4  | 73.4 | 73.4   | 73.4 | 73.4 |
| ≥ 12000           | 78.1                       | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1  | 78.1 | 78.1   | 78.1 | 78.1 |
| ≥ 10000           | 82.9                       | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9  | 82.9 | 82.9   | 82.9 | 82.9 |
| ≥ 9000            | 84.6                       | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6   | 84.6 | 84.6 |
| ≥ 8000            | 87.7                       | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7  | 87.7 | 87.7   | 87.7 | 87.7 |
| ≥ 7000            | 89.5                       | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 | 89.5   | 89.5 | 89.5 |
| ≥ 6000            | 90.5                       | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5  | 90.5 | 90.5   | 90.5 | 90.5 |
| ≥ 5000            | 91.5                       | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5 | 91.5   | 91.5 | 91.5 |
| ≥ 4500            | 93.2                       | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 | 93.2 |
| ≥ 4000            | 93.6                       | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6   | 93.6 | 93.6 |
| ≥ 3500            | 94.7                       | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7   | 94.7 | 94.7 |
| ≥ 3000            | 94.9                       | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 | 94.9 |
| ≥ 2500            | 95.4                       | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4   | 95.4 | 95.4 |
| ≥ 2000            | 95.9                       | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9   | 95.9 | 95.9 |
| ≥ 1800            | 96.2                       | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2  | 96.2 | 96.2   | 96.2 | 96.2 |
| ≥ 1500            | 96.3                       | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3  | 96.3 | 96.3   | 96.3 | 96.3 |
| ≥ 1200            | 97.3                       | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 | 97.3 |
| ≥ 1000            | 97.4                       | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4   | 97.4 | 97.4 |
| ≥ 900             | 97.7                       | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7   | 97.7 | 97.7 |
| ≥ 800             | 97.9                       | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9  | 97.9 | 97.9   | 97.9 | 97.9 |
| ≥ 700             | 98.0                       | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0   | 98.0 | 98.0 |
| ≥ 600             | 98.1                       | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| ≥ 500             | 98.3                       | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 400             | 98.5                       | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 300             | 98.7                       | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7   | 98.7 | 98.7 |
| ≥ 200             | 99.0                       | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0  | 99.0 | 99.0   | 99.0 | 99.0 |
| ≥ 100             | 99.1                       | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1   | 99.1 | 99.1 |
| ≥ 0               | 99.3                       | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3   | 99.3 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS 2075

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

94037 STATION COLORADO SPRINGS COLU-PETERSON FD 43-47, 49-10 YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 55.4                       | 55.5 | 55.5 | 55.5 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.5 | 55.6  | 55.6 | 55.6   | 55.6 | 55.6 |
| ≥ 20000           | 64.6                       | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5  | 64.5 | 64.5   | 64.5 | 64.5 |
| ≥ 18000           | 64.9                       | 64.9 | 64.9 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0  | 65.0 | 65.0   | 65.0 | 65.0 |
| ≥ 16000           | 66.2                       | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1  | 66.1 | 66.1   | 66.1 | 66.1 |
| ≥ 14000           | 70.4                       | 70.5 | 70.5 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6 | 70.6  | 70.6 | 70.6   | 70.6 | 70.6 |
| ≥ 12000           | 74.3                       | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5  | 74.5 | 74.5   | 74.5 | 74.5 |
| ≥ 10000           | 77.1                       | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3  | 77.3 | 77.3   | 77.3 | 77.3 |
| ≥ 9000            | 79.9                       | 80.0 | 80.0 | 80.0 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1 | 80.1  | 80.1 | 80.1   | 80.1 | 80.1 |
| ≥ 8000            | 84.7                       | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0  | 85.0 | 85.0   | 85.0 | 85.0 |
| ≥ 7000            | 87.6                       | 87.8 | 87.8 | 87.8 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9 | 87.9   | 87.9 | 87.9 |
| ≥ 6000            | 90.9                       | 90.1 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2   | 90.2 | 90.2 |
| ≥ 5000            | 91.5                       | 91.7 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8   | 91.8 | 91.8 |
| ≥ 4500            | 92.1                       | 92.4 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5   | 92.5 | 92.5 |
| ≥ 4000            | 92.9                       | 93.2 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3   | 93.3 | 93.3 |
| ≥ 3500            | 93.5                       | 93.9 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0   | 94.0 | 94.0 |
| ≥ 3000            | 94.2                       | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7   | 94.7 | 94.7 |
| ≥ 2500            | 94.6                       | 95.0 | 95.1 | 95.1 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2  | 95.2 | 95.2   | 95.2 | 95.2 |
| ≥ 2000            | 95.1                       | 95.5 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 | 95.8 |
| ≥ 1800            | 95.2                       | 95.7 | 95.8 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 96.0   | 96.0 | 96.0 |
| ≥ 1500            | 95.6                       | 96.1 | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4 |
| ≥ 1200            | 95.8                       | 96.5 | 96.7 | 96.7 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 | 96.8 |
| ≥ 1000            | 96.1                       | 96.8 | 97.0 | 97.1 | 97.1 | 97.1 | 97.1 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2  | 97.2 | 97.2   | 97.2 | 97.2 |
| ≥ 900             | 96.3                       | 97.0 | 97.2 | 97.3 | 97.3 | 97.3 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4 | 97.4   | 97.4 | 97.4 |
| ≥ 800             | 96.5                       | 97.2 | 97.4 | 97.5 | 97.6 | 97.6 | 97.6 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7   | 97.7 | 97.7 |
| ≥ 700             | 96.6                       | 97.4 | 97.6 | 97.8 | 97.8 | 97.8 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9 | 97.9  | 97.9 | 98.0   | 98.0 | 98.0 |
| ≥ 600             | 96.8                       | 97.6 | 97.8 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.2   | 98.2 | 98.2 |
| ≥ 500             | 96.9                       | 97.7 | 98.0 | 98.2 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.5   | 98.5 | 98.5 |
| ≥ 400             | 96.9                       | 97.9 | 98.2 | 98.4 | 98.5 | 98.5 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.8   | 98.8 | 98.8 |
| ≥ 300             | 97.0                       | 98.0 | 98.3 | 98.6 | 98.7 | 98.8 | 98.9 | 99.0 | 99.0 | 99.1 | 99.1 | 99.1  | 99.1 | 99.2   | 99.2 | 99.3 |
| ≥ 200             | 97.0                       | 98.1 | 98.4 | 98.7 | 98.8 | 98.9 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.2   | 99.2 | 99.3 |
| ≥ 100             | 97.0                       | 98.1 | 98.4 | 98.7 | 98.8 | 98.9 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2   | 99.2 | 99.2 |
| ≥ 0               | 97.0                       | 98.1 | 98.4 | 98.7 | 98.8 | 98.9 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2   | 99.2 | 99.2 |

TOTAL NUMBER OF OBSERVATIONS 18600

DATA PROCESSING DIVISION  
ETAC, 1134F  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS GOLD-PETERSON F.O.  
STATION NAME

42-97,49-68  
YEARS

SEP  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0.50  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 73.5                     | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5 | 73.5  | 73.5 | 73.5  | 73.5 | 73.5 |
| ≥ 20000           | 77.7                     | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7 | 77.7  | 77.7 | 77.7  | 77.7 | 77.7 |
| ≥ 18000           | 77.9                     | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1  | 78.1 | 78.1  | 78.1 | 78.1 |
| ≥ 16000           | 78.5                     | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6  | 78.6 | 78.6  | 78.6 | 78.6 |
| ≥ 14000           | 80.4                     | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6  | 80.6 | 80.6  | 80.6 | 80.6 |
| ≥ 12000           | 82.1                     | 82.2 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3  | 82.3 | 82.3  | 82.3 | 82.3 |
| ≥ 10000           | 83.1                     | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3  | 83.3 | 83.3  | 83.3 | 83.3 |
| ≥ 9000            | 83.7                     | 83.8 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9  | 83.9 | 83.9  | 83.9 | 83.9 |
| ≥ 8000            | 84.2                     | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4 | 84.4  | 84.4 | 84.4 |
| ≥ 7000            | 84.7                     | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8 | 84.8  | 84.8 | 84.8 |
| ≥ 6000            | 85.0                     | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8  | 85.8 | 85.8 |
| ≥ 5000            | 86.5                     | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 4500            | 86.8                     | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1  | 87.1 | 87.1 |
| ≥ 4000            | 87.0                     | 87.8 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9 | 87.9  | 87.9 | 87.9 |
| ≥ 3500            | 88.1                     | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5  | 88.5 | 88.5 |
| ≥ 3000            | 88.9                     | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3  | 89.3 | 89.3 |
| ≥ 2500            | 89.7                     | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1  | 90.1 | 90.1 |
| ≥ 2000            | 90.4                     | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8  | 90.8 | 90.8 |
| ≥ 1800            | 90.8                     | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5 | 91.5  | 91.5 | 91.5 |
| ≥ 1500            | 91.9                     | 92.7 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8  | 92.8 | 92.8 |
| ≥ 1200            | 92.3                     | 92.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 | 93.3 |
| ≥ 1000            | 92.7                     | 93.0 | 93.6 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7  | 93.7 | 93.7 |
| ≥ 900             | 93.0                     | 93.9 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0  | 94.0 | 94.0 |
| ≥ 800             | 93.4                     | 94.3 | 94.4 | 94.4 | 94.4 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5  | 94.5 | 94.5 |
| ≥ 700             | 93.8                     | 94.9 | 94.9 | 95.0 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  | 95.1 | 95.1 |
| ≥ 600             | 94.2                     | 95.3 | 95.4 | 95.5 | 95.5 | 95.5 | 95.6 | 95.7 | 95.7 | 95.7 | 95.7 | 95.8  | 95.8 | 95.8  | 95.8 | 95.8 |
| ≥ 500             | 94.5                     | 95.7 | 95.8 | 95.9 | 96.1 | 96.1 | 96.2 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3  | 96.3 | 96.3  | 96.3 | 96.3 |
| ≥ 400             | 94.8                     | 96.1 | 96.4 | 96.5 | 96.7 | 96.7 | 96.8 | 96.9 | 96.9 | 96.9 | 96.9 | 97.2  | 97.2 | 97.2  | 97.2 | 97.2 |
| ≥ 300             | 94.9                     | 96.3 | 96.5 | 96.8 | 97.0 | 97.0 | 97.1 | 97.3 | 97.3 | 97.3 | 97.3 | 97.7  | 97.7 | 97.7  | 97.7 | 97.7 |
| ≥ 200             | 94.9                     | 96.4 | 96.7 | 97.0 | 97.2 | 97.2 | 97.4 | 97.6 | 97.6 | 97.6 | 97.6 | 98.2  | 98.2 | 98.3  | 98.3 | 98.3 |
| ≥ 100             | 94.9                     | 96.5 | 96.8 | 97.1 | 97.3 | 97.3 | 97.5 | 97.8 | 97.8 | 97.8 | 97.8 | 98.1  | 98.1 | 98.5  | 98.5 | 98.5 |
| ≥ 0               | 94.9                     | 96.5 | 96.8 | 97.1 | 97.3 | 97.3 | 97.5 | 97.8 | 97.8 | 97.8 | 97.8 | 98.2  | 98.2 | 98.7  | 99.0 | 99.4 |

TOTAL NUMBER OF OBSERVATIONS 2098

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS CUG-PETERSON FO  
STATION NAME

47-47-49-04  
YEARS

519  
MOON

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

4300-0501  
OBS (CL) (1)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 71.3                       | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7  | 71.7 | 71.7   | 71.7 | 71.6 |
| ≥ 20000           | 76.3                       | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6  | 76.6 | 76.6   | 76.7 | 76.8 |
| ≥ 18000           | 76.7                       | 76.9 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.3 | 77.1 |
| ≥ 16000           | 77.3                       | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8  | 77.8 | 77.9   | 77.9 | 78.0 |
| ≥ 14000           | 79.4                       | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7  | 79.7 | 79.8   | 79.8 | 79.9 |
| ≥ 12000           | 81.3                       | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6  | 81.6 | 81.7   | 81.7 | 81.8 |
| ≥ 10000           | 82.8                       | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  | 82.8 | 82.9   | 82.9 | 83.0 |
| ≥ 9000            | 83.8                       | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 | 83.9   | 83.9 | 84.0 |
| ≥ 8000            | 84.7                       | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8 | 84.9   | 84.9 | 85.0 |
| ≥ 7000            | 84.9                       | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9  | 84.9 | 84.9   | 84.9 | 85.0 |
| ≥ 6000            | 85.2                       | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2  | 85.2 | 85.3   | 85.3 | 85.4 |
| ≥ 5000            | 85.3                       | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7  | 85.7 | 85.8   | 85.8 | 85.9 |
| ≥ 4500            | 85.9                       | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0  | 86.0 | 86.1   | 86.1 | 86.2 |
| ≥ 4000            | 86.0                       | 86.4 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5  | 86.5 | 86.5   | 86.5 | 86.6 |
| ≥ 3500            | 86.3                       | 86.7 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8 | 86.9   | 86.9 | 87.0 |
| ≥ 3000            | 87.3                       | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8 | 87.9   | 87.9 | 88.0 |
| ≥ 2500            | 87.9                       | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3  | 88.3 | 88.4   | 88.4 | 88.5 |
| ≥ 2000            | 89.0                       | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  | 89.6 | 89.6   | 89.6 | 89.7 |
| ≥ 1800            | 89.3                       | 89.7 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0   | 90.0 | 90.1 |
| ≥ 1500            | 90.0                       | 90.7 | 90.8 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 91.0   | 91.0 | 91.0 |
| ≥ 1200            | 90.9                       | 91.6 | 92.0 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.2   | 92.2 | 92.3 |
| ≥ 1000            | 91.3                       | 92.4 | 92.7 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 93.0   | 93.0 | 93.0 |
| ≥ 900             | 91.8                       | 92.8 | 93.1 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 | 93.5   | 93.5 | 93.6 |
| ≥ 800             | 92.9                       | 92.9 | 93.3 | 93.5 | 93.6 | 93.6 | 93.6 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.8   | 93.8 | 93.9 |
| ≥ 700             | 92.1                       | 93.1 | 93.5 | 93.6 | 93.9 | 93.9 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0   | 94.0 | 94.1 |
| ≥ 600             | 92.3                       | 93.5 | 93.9 | 94.1 | 94.2 | 94.2 | 94.2 | 94.3 | 94.4 | 94.4 | 94.4 | 94.4  | 94.4 | 94.5   | 94.5 | 94.6 |
| ≥ 500             | 92.3                       | 93.9 | 94.3 | 94.6 | 94.7 | 94.7 | 94.8 | 94.9 | 94.9 | 94.9 | 95.0 | 95.1  | 95.1 | 95.2   | 95.2 | 95.3 |
| ≥ 400             | 92.8                       | 94.3 | 94.9 | 95.1 | 95.2 | 95.2 | 95.4 | 95.5 | 95.5 | 95.5 | 95.6 | 95.8  | 95.8 | 95.9   | 95.9 | 96.0 |
| ≥ 300             | 92.9                       | 94.7 | 95.4 | 95.6 | 95.9 | 95.9 | 96.1 | 96.4 | 96.4 | 96.4 | 96.5 | 96.8  | 96.8 | 97.0   | 97.0 | 97.1 |
| ≥ 200             | 92.9                       | 94.7 | 95.4 | 95.7 | 96.0 | 96.1 | 96.4 | 96.7 | 96.7 | 96.7 | 97.0 | 97.3  | 97.3 | 97.9   | 97.9 | 98.1 |
| ≥ 100             | 92.9                       | 94.7 | 95.4 | 95.7 | 96.0 | 96.1 | 96.4 | 96.7 | 96.7 | 96.7 | 97.2 | 97.5  | 97.5 | 98.0   | 98.0 | 98.4 |
| ≥ 0               | 92.9                       | 94.7 | 95.4 | 95.7 | 96.0 | 96.1 | 96.4 | 96.7 | 96.7 | 96.7 | 97.2 | 97.5  | 97.5 | 98.0   | 98.0 | 98.4 |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93017  
STATION

COLORADO SPRINGS COLE-PETERSON FD  
STATION NAME

42-47,49-58  
YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6/5/57-6/5/60  
MOSES (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |      |      |        |      |         |      |
|-------------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|--------|------|---------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .5/8 | ≥ .5 | ≥ .5/16 | ≥ 0  |
| NO CEILING        | 66.0                       | 66.4 | 66.2 | 66.2 | 66.3 | 66.3  | 66.3 | 66.3  | 66.3  | 66.3 | 66.3 | 66.3   | 66.3 | 66.3    | 66.3 |
| ≥ 20000           | 73.8                       | 74.1 | 74.1 | 74.2 | 74.2 | 74.2  | 74.2 | 74.2  | 74.2  | 74.2 | 74.2 | 74.2   | 74.2 | 74.2    | 74.2 |
| ≥ 18000           | 74.2                       | 74.3 | 74.3 | 74.3 | 74.6 | 74.6  | 74.6 | 74.6  | 74.6  | 74.6 | 74.6 | 74.6   | 74.6 | 74.6    | 74.7 |
| ≥ 16000           | 75.2                       | 75.3 | 75.3 | 75.3 | 75.6 | 75.6  | 75.6 | 75.6  | 75.6  | 75.6 | 75.6 | 75.6   | 75.6 | 75.6    | 75.7 |
| ≥ 14000           | 78.2                       | 78.3 | 78.3 | 78.6 | 78.6 | 78.6  | 78.6 | 78.6  | 78.6  | 78.6 | 78.6 | 78.6   | 78.6 | 78.6    | 78.7 |
| ≥ 12000           | 80.7                       | 81.1 | 81.1 | 81.2 | 81.2 | 81.2  | 81.2 | 81.2  | 81.2  | 81.2 | 81.2 | 81.2   | 81.2 | 81.2    | 81.3 |
| ≥ 10000           | 82.1                       | 82.5 | 82.5 | 82.5 | 82.6 | 82.6  | 82.6 | 82.6  | 82.6  | 82.6 | 82.6 | 82.6   | 82.6 | 82.6    | 82.7 |
| ≥ 9000            | 82.5                       | 82.9 | 82.9 | 83.0 | 83.0 | 83.0  | 83.0 | 83.0  | 83.0  | 83.0 | 83.0 | 83.0   | 83.0 | 83.0    | 83.1 |
| ≥ 8000            | 83.0                       | 83.4 | 83.4 | 83.4 | 83.5 | 83.5  | 83.5 | 83.5  | 83.5  | 83.5 | 83.5 | 83.5   | 83.5 | 83.5    | 83.6 |
| ≥ 7000            | 83.6                       | 84.0 | 84.0 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1  | 84.1  | 84.1 | 84.1 | 84.1   | 84.1 | 84.1    | 84.2 |
| ≥ 6000            | 84.2                       | 84.6 | 84.6 | 84.6 | 84.7 | 84.7  | 84.7 | 84.7  | 84.7  | 84.7 | 84.7 | 84.7   | 84.7 | 84.7    | 84.8 |
| ≥ 5000            | 84.9                       | 85.3 | 85.3 | 85.4 | 85.4 | 85.4  | 85.4 | 85.4  | 85.4  | 85.4 | 85.4 | 85.4   | 85.4 | 85.4    | 85.5 |
| ≥ 4500            | 85.2                       | 85.7 | 85.7 | 85.7 | 85.8 | 85.8  | 85.8 | 85.8  | 85.8  | 85.8 | 85.8 | 85.8   | 85.8 | 85.8    | 85.9 |
| ≥ 4000            | 85.3                       | 85.9 | 85.9 | 86.0 | 86.0 | 86.0  | 86.0 | 86.0  | 86.0  | 86.0 | 86.0 | 86.0   | 86.0 | 86.0    | 86.1 |
| ≥ 3500            | 85.0                       | 85.4 | 85.4 | 85.5 | 85.5 | 85.5  | 85.5 | 85.5  | 85.5  | 85.5 | 85.5 | 85.5   | 85.5 | 85.5    | 85.6 |
| ≥ 3000            | 85.5                       | 87.1 | 87.1 | 87.1 | 87.2 | 87.2  | 87.2 | 87.2  | 87.2  | 87.2 | 87.2 | 87.2   | 87.2 | 87.2    | 87.3 |
| ≥ 2500            | 87.3                       | 88.0 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1  | 88.1  | 88.1 | 88.1 | 88.1   | 88.1 | 88.1    | 88.2 |
| ≥ 2000            | 88.9                       | 89.4 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 | 89.5  | 89.5  | 89.5 | 89.5 | 89.5   | 89.5 | 89.5    | 89.6 |
| ≥ 1800            | 89.4                       | 90.0 | 90.1 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1  | 90.1  | 90.1 | 90.1 | 90.1   | 90.1 | 90.1    | 90.2 |
| ≥ 1500            | 90.2                       | 90.9 | 90.9 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1  | 91.1  | 91.1 | 91.1 | 91.1   | 91.1 | 91.1    | 91.2 |
| ≥ 1200            | 91.1                       | 91.9 | 91.9 | 92.1 | 92.1 | 92.2  | 92.2 | 92.2  | 92.2  | 92.2 | 92.2 | 92.2   | 92.2 | 92.2    | 92.3 |
| ≥ 1000            | 91.4                       | 92.2 | 92.3 | 92.6 | 92.6 | 92.9  | 92.9 | 92.9  | 92.9  | 92.9 | 92.9 | 92.9   | 92.9 | 92.9    | 93.0 |
| ≥ 900             | 91.9                       | 92.8 | 93.1 | 93.2 | 93.4 | 93.4  | 93.4 | 93.4  | 93.4  | 93.4 | 93.4 | 93.4   | 93.4 | 93.4    | 93.5 |
| ≥ 800             | 92.3                       | 93.3 | 93.8 | 94.0 | 94.2 | 94.3  | 94.3 | 94.3  | 94.3  | 94.3 | 94.3 | 94.3   | 94.3 | 94.3    | 94.4 |
| ≥ 700             | 92.7                       | 93.8 | 94.3 | 94.3 | 94.8 | 94.8  | 94.9 | 94.9  | 94.9  | 94.9 | 94.9 | 94.9   | 94.9 | 94.9    | 95.0 |
| ≥ 600             | 92.8                       | 94.4 | 95.0 | 95.2 | 95.6 | 95.7  | 95.7 | 95.7  | 95.7  | 95.7 | 95.7 | 95.7   | 95.7 | 95.7    | 95.8 |
| ≥ 500             | 92.9                       | 94.5 | 95.3 | 95.7 | 96.1 | 96.1  | 96.3 | 96.3  | 96.3  | 96.3 | 96.3 | 96.3   | 96.3 | 96.3    | 96.4 |
| ≥ 400             | 93.0                       | 94.7 | 95.4 | 95.9 | 96.4 | 96.5  | 96.7 | 96.7  | 96.7  | 96.7 | 96.7 | 96.7   | 96.7 | 96.7    | 96.8 |
| ≥ 300             | 93.0                       | 94.9 | 95.7 | 96.3 | 96.9 | 97.0  | 97.2 | 97.4  | 97.4  | 97.4 | 97.4 | 97.4   | 97.4 | 97.4    | 97.5 |
| ≥ 200             | 93.0                       | 94.9 | 95.7 | 96.4 | 96.9 | 97.1  | 97.3 | 97.6  | 97.6  | 97.6 | 97.6 | 97.6   | 97.6 | 97.6    | 97.7 |
| ≥ 100             | 93.0                       | 94.9 | 95.7 | 96.4 | 96.9 | 97.1  | 97.3 | 97.6  | 97.6  | 97.6 | 97.6 | 97.6   | 97.6 | 97.6    | 97.7 |
| ≥ 0               | 93.0                       | 94.9 | 95.7 | 96.4 | 96.9 | 97.1  | 97.3 | 97.6  | 97.6  | 97.6 | 97.6 | 97.6   | 97.6 | 97.6    | 97.7 |

TOTAL NUMBER OF OBSERVATIONS

2101

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

95037 COLD SPRING COLD-PETERSON FL 42-57.49-08 515  
STATION STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0500-1100  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 66.1                       | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1  | 66.1 | 66.1   | 66.1 | 66.1 |
| ≥ 20000           | 76.1                       | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2  | 76.2 | 76.2   | 76.2 | 76.2 |
| ≥ 18000           | 76.9                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 16000           | 78.0                       | 78.0 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1  | 78.1 | 78.1   | 78.1 | 78.1 |
| ≥ 14000           | 80.1                       | 80.1 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2 | 80.2  | 80.2 | 80.2   | 80.2 | 80.2 |
| ≥ 12000           | 82.0                       | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0  | 82.0 | 82.0   | 82.0 | 82.0 |
| ≥ 10000           | 83.0                       | 83.7 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 | 83.8   | 83.8 | 83.8 |
| ≥ 9000            | 84.0                       | 84.1 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2  | 84.2 | 84.2   | 84.2 | 84.2 |
| ≥ 8000            | 85.0                       | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0  | 85.0 | 85.0   | 85.0 | 85.0 |
| ≥ 7000            | 85.9                       | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0  | 86.0 | 86.0   | 86.0 | 86.0 |
| ≥ 6000            | 86.0                       | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5  | 86.5 | 86.5   | 86.5 | 86.5 |
| ≥ 5000            | 87.0                       | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 | 87.1 |
| ≥ 4500            | 87.5                       | 87.6 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7  | 87.7 | 87.7   | 87.7 | 87.7 |
| ≥ 4000            | 88.0                       | 88.1 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2   | 88.2 | 88.2 |
| ≥ 3500            | 89.0                       | 89.1 | 89.1 | 89.1 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2  | 89.2 | 89.2   | 89.2 | 89.2 |
| ≥ 3000            | 90.0                       | 90.3 | 90.3 | 90.3 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4  | 90.4 | 90.4   | 90.4 | 90.4 |
| ≥ 2500            | 91.0                       | 91.1 | 91.1 | 91.1 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2  | 91.2 | 91.2   | 91.2 | 91.2 |
| ≥ 2000            | 92.0                       | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2 | 92.2   | 92.2 | 92.2 |
| ≥ 1800            | 92.7                       | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9   | 92.9 | 92.9 |
| ≥ 1500            | 94.1                       | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5   | 94.5 | 94.5 |
| ≥ 1200            | 95.2                       | 95.7 | 95.7 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9   | 95.9 | 95.9 |
| ≥ 1000            | 96.2                       | 96.2 | 96.2 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5   | 96.5 | 96.5 |
| ≥ 900             | 96.8                       | 96.8 | 96.8 | 96.7 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8  | 96.8 | 96.8   | 96.8 | 96.8 |
| ≥ 800             | 96.0                       | 96.8 | 96.9 | 97.0 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1  | 97.1 | 97.1   | 97.1 | 97.1 |
| ≥ 700             | 96.0                       | 97.0 | 97.2 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 97.5 |
| ≥ 600             | 96.2                       | 97.2 | 97.4 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 500             | 96.2                       | 97.2 | 97.4 | 97.8 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0   | 98.0 | 98.0 |
| ≥ 400             | 96.2                       | 97.2 | 97.5 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| ≥ 300             | 96.2                       | 97.3 | 97.5 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 200             | 96.2                       | 97.3 | 97.5 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 100             | 96.2                       | 97.3 | 97.5 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 0               | 96.2                       | 97.3 | 97.5 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |

TOTAL NUMBER OF OBSERVATIONS 2100

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28901

## CEILING VERSUS VISIBILITY

93037  
STATIONCOLORADO SPRINGS COLORADO-PETERSON PJ  
STATION NAME47-49-46  
ELEVATION

YEARS

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

17-7-1-0  
HOURS D.T.Y.

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 59.5                       | 60.0 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6  | 60.6 | 60.6  | 60.6 | 60.6 |
| ≥ 20000           | 71.1                       | 71.1 | 71.1 | 71.1 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2 | 71.2  | 71.2 | 71.2  | 71.2 | 71.2 |
| ≥ 18000           | 71.7                       | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9  | 71.9 | 71.9  | 71.9 | 71.9 |
| ≥ 16000           | 73.1                       | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2  | 73.2 | 73.2  | 73.2 | 73.2 |
| ≥ 14000           | 74.0                       | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1  | 74.1 | 74.1  | 74.1 | 74.1 |
| ≥ 12000           | 77.9                       | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6 | 77.6  | 77.6 | 77.6  | 77.6 | 77.6 |
| ≥ 10000           | 79.1                       | 79.1 | 79.1 | 79.1 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2  | 79.2 | 79.2  | 79.2 | 79.2 |
| ≥ 9000            | 81.0                       | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1 | 81.1  | 81.1 | 81.1 |
| ≥ 8000            | 85.0                       | 85.0 | 85.0 | 85.0 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1 | 85.1  | 85.1 | 85.1 |
| ≥ 7000            | 87.0                       | 87.1 | 87.1 | 87.1 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2  | 87.2 | 87.2  | 87.2 | 87.2 |
| ≥ 6000            | 89.4                       | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 | 89.5  | 89.5 | 89.5 |
| ≥ 5000            | 90.8                       | 91.0 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1  | 91.1 | 91.1 |
| ≥ 4500            | 91.3                       | 91.5 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6  | 91.6 | 91.6  | 91.6 | 91.6 |
| ≥ 4000            | 92.3                       | 92.5 | 92.5 | 92.5 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6  | 92.6 | 92.6 |
| ≥ 3500            | 93.0                       | 93.2 | 93.2 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3 | 93.3 |
| ≥ 3000            | 93.8                       | 93.9 | 94.0 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1 |
| ≥ 2500            | 94.8                       | 94.9 | 95.0 | 95.0 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  | 95.1 | 95.1 |
| ≥ 2000            | 95.6                       | 95.7 | 95.9 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0  | 96.0 | 96.0 |
| ≥ 1800            | 95.9                       | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4  | 96.4 | 96.4 |
| ≥ 1500            | 96.8                       | 97.0 | 97.1 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3  | 97.3 | 97.3 |
| ≥ 1200            | 97.0                       | 97.5 | 97.6 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8  | 97.8 | 97.8 |
| ≥ 1000            | 97.2                       | 97.6 | 97.8 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0  | 98.0 | 98.0 |
| ≥ 900             | 97.3                       | 97.8 | 98.0 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.2  | 98.2 | 98.2 |
| ≥ 800             | 97.5                       | 97.9 | 98.1 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3  | 98.3 | 98.3 |
| ≥ 700             | 97.3                       | 97.9 | 98.1 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4  | 98.4 | 98.4  | 98.4 | 98.4 |
| ≥ 600             | 97.3                       | 98.0 | 98.3 | 98.4 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5  | 98.5 | 98.5 |
| ≥ 500             | 97.3                       | 98.0 | 98.4 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7  | 98.7 | 98.7 |
| ≥ 400             | 97.3                       | 98.0 | 98.4 | 98.6 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9  | 98.9 | 98.9 |
| ≥ 300             | 97.3                       | 98.0 | 98.4 | 98.7 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1  | 99.1 | 99.1 |
| ≥ 200             | 97.3                       | 98.0 | 98.4 | 98.7 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1  | 99.1 | 99.1 |
| ≥ 100             | 97.3                       | 98.0 | 98.4 | 98.7 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1  | 99.1 | 99.1 |
| ≥ 0               | 97.3                       | 98.0 | 98.4 | 98.7 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.1  | 99.1 | 99.1 |

TOTAL NUMBER OF OBSERVATIONS

2095

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037

COLUMBIA SPRINGS COLLEGE-PETERSON, FC

92-47,47-48

S&P

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15.5-17.5  
MOSES 2.1.1

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |        |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/16 | ≥ 1/32 | ≥ 0  |
| NO CEILING        | 57.9                       | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9   | 52.9   | 52.9 |
| ≥ 20000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 18000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 16000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 14000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 12000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 10000           | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 9000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 8000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 7000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 6000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 5000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 4500            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 4000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 3500            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 3000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 2500            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 2000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 1800            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 1500            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 1200            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 1000            | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 900             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 800             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 700             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 600             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 500             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 400             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 300             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 200             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 100             | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |
| ≥ 0               | 64.9                       | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9   | 64.9   | 64.9 |

TOTAL NUMBER OF OBSERVATIONS 2098

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

94397  
STATION

COLUMBIA SPRINGS COLC-PETLSON. Fd  
STATION NAME

42-47-49-56  
YEARS

5:7  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11.0-27.00  
HOURS (L.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|-----------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                       | ≥ 10                       | ≥ 6          | ≥ 5          | ≥ 4          | ≥ 3          | ≥ 2½         | ≥ 2          | ≥ 1½         | ≥ 1¼         | ≥ 1          | ≥ ¾          | ≥ 5/8        | ≥ ½          | ≥ 5/16       | ≥ ¼          | ≥ 0          |
| NO CEILING<br>≥ 20000 | 59.7<br>58.8               | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 | 60.1<br>58.9 |
| IV 18000<br>16000     | 69.1<br>70.6               | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 | 69.2<br>70.7 |
| IV 14000<br>12000     | 74.0<br>77.0               | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 | 74.1<br>77.1 |
| IV 10000<br>9000      | 78.7<br>80.8               | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 | 78.9<br>81.0 |
| IV 8000<br>7000       | 84.0<br>86.8               | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 | 84.2<br>86.8 |
| IV 6000<br>5000       | 88.5<br>90.2               | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 | 88.5<br>90.4 |
| IV 4500<br>4000       | 90.7<br>91.8               | 91.0<br>92.1 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 | 91.0<br>92.2 |
| IV 3500<br>3000       | 92.5<br>93.8               | 92.8<br>94.2 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 | 92.8<br>94.3 |
| IV 2500<br>2000       | 94.8<br>95.7               | 95.2<br>96.2 | 95.3<br>96.3 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 | 95.4<br>96.4 |
| IV 1800<br>1500       | 95.9<br>96.0               | 96.3<br>96.8 | 96.6<br>96.8 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 | 96.7<br>96.9 |
| IV 1200<br>1000       | 96.3<br>96.7               | 97.0<br>97.3 | 97.2<br>97.7 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 | 97.4<br>97.9 |
| IV 900<br>800         | 96.8<br>96.9               | 97.6<br>97.8 | 97.8<br>98.0 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 | 98.0<br>98.2 |
| IV 700<br>600         | 97.0<br>97.1               | 97.9<br>98.0 | 98.2<br>98.3 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 | 98.4<br>98.5 |
| IV 500<br>400         | 97.1<br>97.1               | 98.2<br>98.3 | 98.5<br>98.6 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 | 98.8<br>98.9 |
| IV 300<br>200         | 97.1<br>97.1               | 98.5<br>98.5 | 98.8<br>98.8 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 | 99.0<br>99.1 |
| IV 100<br>0           | 97.1<br>97.1               | 98.5<br>98.5 | 98.8<br>98.8 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 | 99.1<br>99.1 |

TOTAL NUMBER OF OBSERVATIONS 2096

DATA PROCESSING DIVISION  
ETAC, 1978  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

91027  
STATION

CLARKSBURG SPRINGS CLOUD-PETLICKO F0  
STATION NAME

42-47.49-60  
YEARS

SLP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21.00-7.00  
HOURS U.S.T.

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 26500 | 70.8                       | 70.0 | 70.5 | 70.6 | 70.8 | 70.0 | 70.8 | 70.8 | 70.8 | 70.6 | 70.8 | 70.8  | 70.8 | 70.8   | 70.8 | 70.8 |
| ≥ 18000               | 75.8                       | 76.1 | 76.1 | 76.1 | 75.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1  | 76.1 | 76.1   | 76.1 | 76.1 |
| ≥ 16000               | 76.5                       | 76.0 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8  | 76.8 | 76.8   | 76.8 | 76.8 |
| ≥ 14000               | 79.1                       | 79.4 | 79.4 | 79.4 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5  | 79.5 | 79.5   | 79.5 | 79.5 |
| ≥ 12000               | 81.2                       | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5  | 81.5 | 81.5   | 81.5 | 81.5 |
| ≥ 10000               | 82.9                       | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9  | 82.9 | 82.9   | 82.9 | 82.9 |
| ≥ 9000                | 83.5                       | 83.9 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0   | 84.0 | 84.0 |
| ≥ 8000                | 84.8                       | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1 | 85.1   | 85.1 | 85.1 |
| ≥ 7000                | 85.7                       | 86.0 | 86.0 | 86.0 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1  | 86.1 | 86.1   | 86.1 | 86.1 |
| ≥ 6000                | 86.5                       | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9  | 86.9 | 86.9   | 86.9 | 86.9 |
| ≥ 5000                | 88.1                       | 88.7 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8   | 88.8 | 88.8 |
| ≥ 4500                | 88.9                       | 89.5 | 89.5 | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  | 89.6 | 89.6   | 89.6 | 89.6 |
| ≥ 4000                | 89.6                       | 90.2 | 90.2 | 90.2 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  | 90.3 | 90.3   | 90.3 | 90.3 |
| ≥ 3500                | 90.2                       | 90.8 | 90.8 | 90.8 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9   | 90.9 | 90.9 |
| ≥ 3000                | 90.9                       | 91.5 | 91.5 | 91.5 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6  | 91.6 | 91.6   | 91.6 | 91.6 |
| ≥ 2500                | 91.9                       | 92.5 | 92.5 | 92.5 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6 | 92.6   | 92.6 | 92.6 |
| ≥ 2000                | 93.0                       | 93.7 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 | 93.9 |
| ≥ 1800                | 93.8                       | 94.2 | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6   | 94.6 | 94.6 |
| ≥ 1500                | 94.0                       | 94.8 | 95.0 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3   | 95.3 | 95.3 |
| ≥ 1200                | 94.6                       | 95.4 | 95.7 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0   | 96.0 | 96.0 |
| ≥ 1000                | 94.8                       | 95.7 | 96.0 | 96.2 | 96.2 | 96.2 | 96.2 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3  | 96.3 | 96.3   | 96.3 | 96.3 |
| ≥ 900                 | 95.7                       | 95.7 | 96.0 | 96.3 | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4 |
| ≥ 800                 | 95.3                       | 96.2 | 96.5 | 96.8 | 96.9 | 96.9 | 96.9 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0  | 97.0 | 97.0   | 97.0 | 97.0 |
| ≥ 700                 | 95.9                       | 96.5 | 96.9 | 97.1 | 97.2 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 | 97.3   | 97.3 | 97.3 |
| ≥ 600                 | 95.9                       | 96.9 | 97.2 | 97.9 | 97.6 | 97.6 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 500                 | 95.9                       | 97.1 | 97.4 | 97.7 | 97.8 | 97.8 | 97.9 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0  | 98.0 | 98.0   | 98.0 | 98.0 |
| ≥ 400                 | 96.0                       | 97.4 | 97.7 | 98.0 | 98.1 | 98.1 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 300                 | 96.1                       | 97.5 | 97.8 | 98.1 | 98.2 | 98.2 | 98.4 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 200                 | 96.1                       | 97.6 | 98.0 | 98.2 | 98.4 | 98.4 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7   | 98.7 | 98.7 |
| ≥ 100                 | 96.1                       | 97.6 | 98.0 | 98.2 | 98.4 | 98.4 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7   | 98.7 | 98.7 |
| ≥ 0                   | 96.1                       | 97.6 | 98.0 | 98.2 | 98.4 | 98.4 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7  | 98.7 | 98.7   | 98.7 | 98.7 |

TOTAL NUMBER OF OBSERVATIONS

2099

DATA PROCESSING DIVISION  
ETAC, USAF  
ASMEVILLE, N. C. 27601

## CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS (D-D-PETERSON) FD  
STATION NAME

67-67-49-58  
YEARS

5 P  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

311  
HOURS (EST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 65.1                       | 65.2 | 65.2 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3  | 65.3 | 65.3   | 65.3 | 65.3 |
| ≥ 20000           | 73.0                       | 73.1 | 73.1 | 73.1 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2  | 73.2 | 73.2   | 73.2 | 73.2 |
| ≥ 18000           | 73.6                       | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6  | 73.6 | 73.6   | 73.6 | 73.7 |
| ≥ 16000           | 74.5                       | 74.6 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7   | 74.7 | 74.7 |
| ≥ 14000           | 77.1                       | 77.3 | 77.3 | 77.3 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4  | 77.4 | 77.4   | 77.4 | 77.4 |
| ≥ 12000           | 79.6                       | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6  | 79.6 | 79.6   | 79.6 | 79.6 |
| ≥ 10000           | 80.8                       | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0  | 81.0 | 81.0   | 81.0 | 81.1 |
| ≥ 9000            | 82.1                       | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4   | 82.4 | 82.5 |
| ≥ 8000            | 84.2                       | 84.4 | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5   | 84.5 | 84.5 |
| ≥ 7000            | 85.8                       | 85.8 | 85.8 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9   | 85.9 | 85.9 |
| ≥ 6000            | 86.9                       | 87.1 | 87.1 | 87.1 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2  | 87.2 | 87.2   | 87.2 | 87.2 |
| ≥ 5000            | 88.1                       | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4  | 88.4 | 88.4   | 88.4 | 88.4 |
| ≥ 4500            | 88.8                       | 88.9 | 88.9 | 88.9 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0  | 89.0 | 89.0   | 89.0 | 89.0 |
| ≥ 4000            | 89.3                       | 89.6 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.7   | 89.7 | 89.7 |
| ≥ 3500            | 89.9                       | 90.2 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  | 90.3 | 90.3   | 90.3 | 90.3 |
| ≥ 3000            | 90.8                       | 91.2 | 91.2 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3   | 91.3 | 91.3 |
| ≥ 2500            | 91.7                       | 92.0 | 92.1 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2 | 92.2   | 92.2 | 92.2 |
| ≥ 2000            | 92.7                       | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 | 93.2 |
| ≥ 1800            | 93.1                       | 93.6 | 93.6 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7  | 93.7 | 93.7   | 93.7 | 93.7 |
| ≥ 1500            | 93.7                       | 94.3 | 94.4 | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6   | 94.6 | 94.6 |
| ≥ 1200            | 94.3                       | 95.0 | 95.2 | 95.3 | 95.3 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4   | 95.4 | 95.4 |
| ≥ 1000            | 94.7                       | 95.4 | 95.6 | 95.7 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 | 95.8 |
| ≥ 900             | 95.7                       | 95.7 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8 | 95.8   | 95.8 | 95.8 |
| ≥ 800             | 95.1                       | 95.9 | 96.2 | 96.3 | 96.4 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5   | 96.5 | 96.5 |
| ≥ 700             | 95.3                       | 96.2 | 96.4 | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.6   | 96.6 | 96.6 |
| ≥ 600             | 95.5                       | 96.5 | 96.8 | 97.0 | 97.1 | 97.1 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2  | 97.2 | 97.2   | 97.2 | 97.2 |
| ≥ 500             | 95.8                       | 96.7 | 97.0 | 97.3 | 97.4 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  | 97.5 | 97.5   | 97.5 | 97.5 |
| ≥ 400             | 95.6                       | 96.8 | 97.2 | 97.5 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.7   | 97.7 | 97.7 |
| ≥ 300             | 95.7                       | 97.0 | 97.4 | 97.8 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| ≥ 200             | 95.7                       | 97.0 | 97.4 | 97.8 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| ≥ 100             | 95.7                       | 97.0 | 97.4 | 97.8 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| ≥ 0               | 95.7                       | 97.0 | 97.4 | 97.8 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |

TOTAL NUMBER OF OBSERVATIONS 16790

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

## CEILING VERSUS VISIBILITY

93037  
STATION

CLIFFSIDE SPRINGS COLLEGE-PETERSON FD  
STATION NAME

42-47-5-66  
TEARS

66  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBSERVATIONS  
2166

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4   | ≥ 3   | ≥ 2½  | ≥ 2   | ≥ 1½  | ≥ 1¼  | ≥ 1   | ≥ ¾   | ≥ 5/8 | ≥ ½   | ≥ 3/8 | ≥ 1/4 | ≥ 0   |
| NO CEILING        | 74.0                       | 74.2  | 74.2  | 74.3  | 74.3  | 74.4  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  |
| ≥ 20000           | 74.5                       | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  | 74.5  |
| ≥ 18000           | 79.2                       | 79.5  | 79.5  | 79.5  | 79.5  | 79.7  | 79.8  | 79.8  | 79.8  | 79.8  | 79.8  | 79.8  | 79.8  | 79.8  | 79.8  | 79.8  |
| ≥ 16000           | 80.1                       | 80.4  | 80.5  | 80.6  | 80.6  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  |
| ≥ 14000           | 81.7                       | 81.8  | 81.9  | 81.9  | 81.9  | 82.0  | 82.1  | 82.1  | 82.1  | 82.1  | 82.1  | 82.1  | 82.1  | 82.1  | 82.1  | 82.1  |
| ≥ 12000           | 83.1                       | 83.4  | 83.4  | 83.5  | 83.5  | 83.6  | 83.7  | 83.7  | 83.7  | 83.7  | 83.7  | 83.7  | 83.7  | 83.7  | 83.7  | 83.7  |
| ≥ 10000           | 84.7                       | 84.8  | 84.9  | 84.9  | 84.9  | 85.0  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  |
| ≥ 9000            | 86.9                       | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  |
| ≥ 8000            | 88.4                       | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  | 88.4  |
| ≥ 7000            | 89.8                       | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  |
| ≥ 6000            | 91.2                       | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  | 91.2  |
| ≥ 5000            | 92.6                       | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  |
| ≥ 4500            | 94.0                       | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  | 94.0  |
| ≥ 4000            | 95.4                       | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  |
| ≥ 3500            | 96.8                       | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  |
| ≥ 3000            | 98.2                       | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  |
| ≥ 2500            | 99.6                       | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| ≥ 2000            | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 1800            | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 1500            | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 1200            | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 1000            | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 900             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 800             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 700             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 600             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 500             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 400             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 300             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 200             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 100             | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0               | 100.0                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 2166

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLORADO-PETERSON, CO  
STATION NAME

47-47, 49-48  
YEARS

1 CT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (LST)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 18000               | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 16000               | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 14000               | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 12000               | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 10000               | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 9000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 8000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 7000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 6000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 5000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 4500                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 4000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 3500                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 3000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 2500                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 2000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 1800                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 1500                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 1200                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 1000                | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 900                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 800                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 700                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 600                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 500                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 400                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 300                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 200                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 100                 | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |
| ≥ 0                   | 74.3                       | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  | 74.7 | 74.7 |

TOTAL NUMBER OF OBSERVATIONS 2167

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

93047  
STATIONCOLORADO SPRINGS COLG-PETERSON, FN  
STATION NAME97-97,49-28  
YEARS107  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0400-0415  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 62.2                       | 72.3 | 62.3 | 62.4 | 62.4 | 62.4 | 62.4 | 62.5 | 62.5 | 62.5 | 62.5 | 62.5  | 62.5 | 62.5  | 62.5 | 62.5 |
| ≥ 20000           | 74.2                       | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4  | 74.4 | 74.4  | 74.4 | 74.4 |
| ≥ 18000           | 75.0                       | 75.1 | 75.1 | 75.2 | 75.2 | 75.2 | 75.2 | 75.3 | 75.3 | 75.3 | 75.3 | 75.3  | 75.3 | 75.3  | 75.3 | 75.3 |
| ≥ 16000           | 77.2                       | 77.3 | 77.3 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4 | 77.4  | 77.4 | 77.4  | 77.4 | 77.4 |
| ≥ 14000           | 79.8                       | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.1 | 80.1 | 80.2 | 80.2 | 80.2  | 80.2 | 80.2  | 80.2 | 80.2 |
| ≥ 12000           | 82.4                       | 82.5 | 82.5 | 82.6 | 82.7 | 82.7 | 82.7 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  | 82.8 | 82.8  | 82.8 | 82.8 |
| ≥ 10000           | 83.0                       | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0  | 84.0 | 84.0 |
| ≥ 9000            | 84.2                       | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.5 | 84.5 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6  | 84.6 | 84.6 |
| ≥ 8000            | 84.7                       | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 85.0 | 85.0 | 85.1 | 85.1 | 85.1  | 85.1 | 85.1  | 85.1 | 85.1 |
| ≥ 7000            | 85.4                       | 85.6 | 85.6 | 85.7 | 85.7 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8  | 85.8 | 85.8 |
| ≥ 6000            | 86.3                       | 86.5 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 5000            | 87.3                       | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7  | 87.7 | 87.7  | 87.7 | 87.7 |
| ≥ 4500            | 87.3                       | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.9 | 87.9 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0  | 88.0 | 88.0 |
| ≥ 4000            | 88.0                       | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.4 | 88.4 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5  | 88.5 | 88.5 |
| ≥ 3500            | 88.3                       | 88.6 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.8 | 88.8 | 88.9 | 88.9 | 88.9  | 88.9 | 88.9  | 88.9 | 88.9 |
| ≥ 3000            | 89.1                       | 89.5 | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.7 | 89.7 | 89.8 | 89.8 | 89.8  | 89.8 | 89.8  | 89.8 | 89.8 |
| ≥ 2500            | 89.4                       | 89.8 | 89.8 | 89.9 | 89.9 | 89.9 | 89.9 | 90.0 | 90.0 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1  | 90.1 | 90.1 |
| ≥ 2000            | 90.9                       | 90.5 | 90.5 | 90.6 | 90.7 | 90.7 | 90.7 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8  | 90.8 | 90.8 |
| ≥ 1800            | 90.2                       | 90.8 | 90.9 | 90.9 | 91.0 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1 | 91.1 | 91.2  | 91.2 | 91.2  | 91.2 | 91.2 |
| ≥ 1500            | 90.5                       | 91.2 | 91.3 | 91.4 | 91.4 | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.6  | 91.6 | 91.6  | 91.6 | 91.6 |
| ≥ 1200            | 90.9                       | 91.7 | 91.8 | 91.9 | 92.0 | 92.0 | 92.1 | 92.2 | 92.2 | 92.3 | 92.3 | 92.4  | 92.4 | 92.4  | 92.4 | 92.4 |
| ≥ 1000            | 91.2                       | 92.0 | 92.2 | 92.3 | 92.4 | 92.5 | 92.7 | 92.7 | 92.7 | 92.8 | 92.8 | 93.0  | 93.0 | 93.1  | 93.1 | 93.1 |
| ≥ 900             | 91.4                       | 92.3 | 92.5 | 92.7 | 92.7 | 92.8 | 93.0 | 93.1 | 93.1 | 93.2 | 93.3 | 93.3  | 93.3 | 93.4  | 93.4 | 93.4 |
| ≥ 800             | 91.7                       | 92.7 | 93.0 | 93.3 | 93.3 | 93.4 | 93.6 | 93.7 | 93.7 | 93.8 | 93.8 | 94.0  | 94.0 | 94.2  | 94.2 | 94.2 |
| ≥ 700             | 91.7                       | 92.7 | 93.2 | 93.4 | 93.5 | 93.6 | 93.8 | 94.0 | 94.0 | 94.1 | 94.1 | 94.3  | 94.3 | 94.5  | 94.5 | 94.5 |
| ≥ 600             | 91.7                       | 92.9 | 93.3 | 93.6 | 93.8 | 93.8 | 94.1 | 94.3 | 94.3 | 94.4 | 94.4 | 94.6  | 94.6 | 94.8  | 94.8 | 94.8 |
| ≥ 500             | 91.8                       | 93.1 | 93.6 | 94.2 | 94.4 | 94.5 | 94.8 | 95.1 | 95.1 | 95.2 | 95.3 | 95.5  | 95.5 | 95.7  | 95.8 | 95.8 |
| ≥ 400             | 91.9                       | 93.3 | 93.9 | 94.5 | 94.8 | 95.0 | 95.4 | 95.7 | 95.7 | 96.0 | 96.3 | 96.3  | 96.3 | 96.8  | 96.8 | 96.8 |
| ≥ 300             | 91.9                       | 93.3 | 93.9 | 94.5 | 94.8 | 95.0 | 95.4 | 95.7 | 95.7 | 96.0 | 96.3 | 96.3  | 96.3 | 96.8  | 96.8 | 96.8 |
| ≥ 200             | 91.9                       | 93.3 | 93.9 | 94.5 | 94.8 | 95.0 | 95.4 | 95.7 | 95.7 | 96.0 | 96.3 | 96.3  | 96.3 | 96.8  | 96.8 | 96.8 |
| ≥ 100             | 91.9                       | 93.3 | 93.9 | 94.5 | 94.8 | 95.0 | 95.4 | 95.7 | 95.7 | 96.0 | 96.3 | 96.3  | 96.3 | 96.8  | 96.8 | 96.8 |
| ≥ 0               | 91.9                       | 93.3 | 93.9 | 94.5 | 94.8 | 95.0 | 95.4 | 95.7 | 95.7 | 96.0 | 96.3 | 96.3  | 96.3 | 96.8  | 96.8 | 96.8 |

TOTAL NUMBER OF OBSERVATIONS

2164

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FLD  
STATION NAME

42-47-49-68  
YEARS

CT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09.0-11.0  
HOURS (L.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |       |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0   |
| NO CEILING<br>≥ 20000 | 62.3                       | 75.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3  | 62.3 | 62.3  | 62.3 | 62.3  |
| ≥ 18000               | 76.2                       | 76.3 | 76.3 | 76.4 | 76.4 | 76.4 | 76.4 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5  | 76.5 | 76.5  | 76.5 | 76.5  |
| ≥ 16000               | 78.0                       | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3  | 78.3 | 78.3  | 78.3 | 78.3  |
| ≥ 14000               | 81.2                       | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.4 | 81.6 | 81.6 | 81.6 | 81.6 | 81.6  | 81.6 | 81.6  | 81.6 | 81.6  |
| ≥ 12000               | 84.0                       | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4 | 84.4  | 84.4 | 84.4  |
| ≥ 10000               | 85.3                       | 85.5 | 85.5 | 85.6 | 85.6 | 85.6 | 85.6 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7  | 85.7 | 85.7  | 85.7 | 85.7  |
| ≥ 9000                | 85.7                       | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1  | 86.1 | 86.1  | 86.1 | 86.1  |
| ≥ 8000                | 86.3                       | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7  |
| ≥ 7000                | 86.9                       | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3  | 87.3 | 87.3  | 87.3 | 87.3  |
| ≥ 6000                | 87.4                       | 87.6 | 87.6 | 87.7 | 87.7 | 87.7 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8 | 87.8  | 87.8 | 87.8  |
| ≥ 5000                | 88.1                       | 88.3 | 88.3 | 88.4 | 88.4 | 88.4 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5  | 88.5 | 88.5  |
| ≥ 4500                | 88.3                       | 88.6 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8  | 88.8 | 88.8  |
| ≥ 4000                | 88.9                       | 89.2 | 89.3 | 89.3 | 89.4 | 89.4 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 | 89.5  | 89.5 | 89.5  |
| ≥ 3500                | 89.2                       | 89.4 | 89.5 | 89.5 | 89.6 | 89.6 | 89.6 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  | 89.8 | 89.8  | 89.8 | 89.8  |
| ≥ 3000                | 89.9                       | 90.1 | 90.2 | 90.2 | 90.3 | 90.3 | 90.3 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5  | 90.5 | 90.5  | 90.5 | 90.5  |
| ≥ 2500                | 90.4                       | 90.7 | 90.8 | 90.8 | 90.9 | 90.9 | 90.9 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0  | 91.0 | 91.0  | 91.0 | 91.0  |
| ≥ 2000                | 91.6                       | 91.9 | 92.0 | 92.1 | 92.2 | 92.2 | 92.2 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3  | 92.3 | 92.3  | 92.3 | 92.3  |
| ≥ 1800                | 91.7                       | 92.1 | 92.2 | 92.3 | 92.3 | 92.3 | 92.4 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 | 92.5  |
| ≥ 1500                | 92.6                       | 93.0 | 93.1 | 93.2 | 93.3 | 93.3 | 93.4 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 | 93.5  |
| ≥ 1200                | 93.3                       | 93.7 | 93.8 | 94.0 | 94.1 | 94.1 | 94.1 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3  | 94.3 | 94.3  |
| ≥ 1000                | 93.6                       | 94.2 | 94.4 | 94.5 | 94.7 | 94.7 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 95.0  | 95.0 | 95.0  | 95.0 | 95.0  |
| ≥ 900                 | 93.7                       | 94.5 | 94.7 | 94.8 | 95.0 | 95.0 | 95.2 | 95.3 | 95.3 | 95.3 | 95.4 | 95.4  | 95.4 | 95.4  | 95.4 | 95.4  |
| ≥ 800                 | 94.0                       | 94.8 | 95.1 | 95.2 | 95.4 | 95.4 | 95.7 | 95.9 | 95.9 | 95.9 | 96.0 | 96.0  | 96.0 | 96.0  | 96.0 | 96.0  |
| ≥ 700                 | 94.2                       | 95.2 | 95.5 | 95.7 | 95.9 | 95.9 | 96.2 | 96.3 | 96.3 | 96.3 | 96.4 | 96.5  | 96.5 | 96.5  | 96.5 | 96.5  |
| ≥ 600                 | 94.3                       | 95.3 | 95.8 | 96.0 | 96.2 | 96.3 | 96.5 | 96.7 | 96.7 | 96.7 | 96.9 | 97.0  | 97.0 | 97.0  | 97.0 | 97.0  |
| ≥ 500                 | 94.3                       | 95.7 | 96.1 | 96.2 | 96.8 | 96.8 | 96.9 | 97.2 | 97.4 | 97.4 | 97.6 | 97.7  | 97.7 | 97.8  | 97.8 | 97.8  |
| ≥ 400                 | 94.3                       | 95.9 | 96.4 | 96.8 | 97.1 | 97.3 | 97.6 | 98.1 | 98.1 | 98.3 | 98.5 | 98.5  | 98.7 | 98.7  | 98.7 | 98.7  |
| ≥ 300                 | 94.5                       | 96.0 | 96.6 | 97.0 | 97.4 | 97.6 | 98.0 | 98.4 | 98.4 | 98.8 | 99.1 | 99.1  | 99.2 | 99.2  | 99.3 | 99.4  |
| ≥ 200                 | 94.5                       | 96.0 | 96.6 | 97.0 | 97.4 | 97.6 | 98.0 | 98.4 | 98.4 | 98.8 | 99.1 | 99.1  | 99.3 | 99.3  | 99.4 | 99.4  |
| ≥ 100                 | 94.5                       | 96.0 | 96.6 | 97.0 | 97.4 | 97.6 | 98.0 | 98.4 | 98.4 | 98.8 | 99.1 | 99.1  | 99.3 | 99.3  | 99.4 | 99.4  |
| ≥ 0                   | 94.5                       | 96.0 | 96.6 | 97.0 | 97.4 | 97.6 | 98.0 | 98.4 | 98.4 | 98.8 | 99.1 | 99.1  | 99.3 | 99.3  | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS

216

DATA PROCESSING DIVISION  
FAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037  
STATION

COLUMBI SPRINGS COLO-PETERSON PD  
STATION NAME

22-47,49-48  
YEARS

12.0  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12.0  
MONTH

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |       |       |       |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 4/5 | ≥ 3/4 | ≥ 1/2 | ≥ 0  |
| NO CEILING        | 50.0                       | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4  | 50.4  | 50.4  | 50.4  | 50.4 |
| ≥ 20000           | 75.7                       | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4  | 76.4  | 76.4  | 76.4  | 76.4 |
| ≥ 18000           | 77.0                       | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 | 77.5  | 77.5  | 77.5  | 77.5  | 77.5 |
| ≥ 16000           | 77.9                       | 78.1 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4  | 78.4  | 78.4  | 78.4  | 78.4 |
| ≥ 14000           | 80.9                       | 80.6 | 80.9 | 80.9 | 80.9 | 80.9 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0  | 81.0  | 81.0  | 81.0  | 81.0 |
| ≥ 12000           | 82.7                       | 84.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.7 | 83.3 | 83.3 | 83.3 | 83.3 | 83.3  | 83.3  | 83.3  | 83.3  | 83.3 |
| ≥ 10000           | 83.9                       | 84.9 | 84.5 | 84.5 | 84.5 | 84.5 | 84.6 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0  | 84.0  | 84.0  | 84.0 |
| ≥ 9000            | 84.6                       | 85.2 | 85.2 | 85.2 | 85.2 | 85.2 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3 | 85.3  | 85.3  | 85.3  | 85.3  | 85.3 |
| ≥ 8000            | 86.9                       | 87.3 | 87.5 | 87.5 | 87.5 | 87.5 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6  | 87.6  | 87.6  | 87.6 |
| ≥ 7000            | 88.1                       | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8  | 88.8  | 88.8  | 88.8 |
| ≥ 6000            | 89.0                       | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  | 89.8  | 89.8  | 89.8  | 89.8 |
| ≥ 5000            | 89.9                       | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7  | 90.7  | 90.7  | 90.7 |
| ≥ 4500            | 90.1                       | 91.0 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2  | 91.2  | 91.2  | 91.2  | 91.2 |
| ≥ 4000            | 91.7                       | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8  | 91.8  | 91.8  | 91.8 |
| ≥ 3500            | 91.1                       | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2  | 92.2  | 92.2  | 92.2 |
| ≥ 3000            | 92.0                       | 92.9 | 93.0 | 93.0 | 93.0 | 93.0 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1  | 93.1  | 93.1  | 93.1 |
| ≥ 2500            | 92.2                       | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4  | 93.4  | 93.4  | 93.4 |
| ≥ 2000            | 92.9                       | 94.1 | 94.2 | 94.2 | 94.2 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3  | 94.3  | 94.3  | 94.3 |
| ≥ 1800            | 93.1                       | 94.3 | 94.5 | 94.5 | 94.5 | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6  | 94.6  | 94.6  | 94.6 |
| ≥ 1500            | 94.1                       | 95.4 | 95.6 | 95.6 | 95.6 | 95.6 | 95.7 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8  | 95.8  | 95.8  | 95.8 |
| ≥ 1200            | 94.9                       | 96.2 | 96.4 | 96.4 | 96.4 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5  | 96.5  | 96.5  | 96.5 |
| ≥ 1000            | 95.3                       | 96.8 | 97.0 | 97.1 | 97.1 | 97.1 | 97.3 | 97.3 | 97.3 | 97.3 | 97.4 | 97.4  | 97.4  | 97.4  | 97.4  | 97.4 |
| ≥ 900             | 95.4                       | 96.9 | 97.1 | 97.2 | 97.3 | 97.3 | 97.5 | 97.5 | 97.5 | 97.5 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6  | 97.6 |
| ≥ 800             | 95.6                       | 97.3 | 97.5 | 97.6 | 97.7 | 97.7 | 97.9 | 97.9 | 97.9 | 97.9 | 98.0 | 98.0  | 98.0  | 98.0  | 98.0  | 98.0 |
| ≥ 700             | 95.7                       | 97.4 | 97.6 | 97.8 | 97.8 | 97.8 | 98.0 | 98.1 | 98.1 | 98.1 | 98.2 | 98.2  | 98.2  | 98.2  | 98.2  | 98.2 |
| ≥ 600             | 95.7                       | 97.5 | 97.8 | 98.0 | 98.1 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4  | 98.4  | 98.4  | 98.4  | 98.4 |
| ≥ 500             | 95.7                       | 97.6 | 98.1 | 98.2 | 98.3 | 98.3 | 98.6 | 98.7 | 98.7 | 98.7 | 98.8 | 98.8  | 98.8  | 98.8  | 98.8  | 98.8 |
| ≥ 400             | 95.7                       | 97.8 | 98.1 | 98.4 | 98.5 | 98.5 | 98.8 | 98.9 | 98.9 | 98.9 | 99.1 | 99.1  | 99.1  | 99.1  | 99.1  | 99.1 |
| ≥ 300             | 95.8                       | 97.9 | 98.2 | 98.5 | 98.7 | 98.8 | 99.0 | 99.1 | 99.1 | 99.1 | 99.4 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4 |
| ≥ 200             | 95.8                       | 97.9 | 98.2 | 98.5 | 98.7 | 98.8 | 99.1 | 99.1 | 99.1 | 99.1 | 99.4 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4 |
| ≥ 100             | 95.8                       | 97.9 | 98.2 | 98.5 | 98.7 | 98.8 | 99.1 | 99.1 | 99.1 | 99.1 | 99.4 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4 |
| ≥ 0               | 95.8                       | 97.9 | 98.2 | 98.5 | 98.7 | 98.8 | 99.1 | 99.1 | 99.1 | 99.1 | 99.4 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4 |

TOTAL NUMBER OF OBSERVATIONS 2169

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28011

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLG-PETERSOL F0  
STATION NAME

42-47.49-56  
EARS

TEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1320-1/00  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 58.3                       | 55.0 | 58.6 | 58.6 | 58.6 | 58.6 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7  | 58.7 | 58.7   | 58.7 | 58.7 |
| ≥ 20000           | 73.0                       | 73.2 | 73.3 | 73.3 | 73.3 | 73.3 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4  | 73.4 | 73.4   | 73.4 | 73.4 |
| ≥ 18000           | 74.0                       | 74.3 | 74.3 | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5  | 74.5 | 74.5   | 74.5 | 74.5 |
| ≥ 16000           | 75.7                       | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1  | 76.1 | 76.1   | 76.1 | 76.1 |
| ≥ 14000           | 77.9                       | 78.1 | 78.2 | 78.2 | 78.2 | 78.2 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3  | 78.3 | 78.3   | 78.3 | 78.3 |
| ≥ 12000           | 80.0                       | 80.3 | 80.3 | 80.4 | 80.4 | 80.4 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5  | 80.5 | 80.5   | 80.5 | 80.5 |
| ≥ 10000           | 81.2                       | 81.5 | 81.5 | 81.6 | 81.6 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7   | 81.7 | 81.7 |
| ≥ 9000            | 82.0                       | 82.2 | 82.2 | 82.3 | 82.3 | 82.3 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4   | 82.4 | 82.4 |
| ≥ 8000            | 85.8                       | 86.1 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2 | 86.2   | 86.2 | 86.2 |
| ≥ 7000            | 87.3                       | 87.6 | 87.6 | 87.7 | 87.7 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8 | 87.8   | 87.8 | 87.8 |
| ≥ 6000            | 88.8                       | 89.1 | 89.2 | 89.2 | 89.2 | 89.2 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3   | 89.3 | 89.3 |
| ≥ 5000            | 90.0                       | 90.4 | 90.5 | 90.5 | 90.5 | 90.5 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7   | 90.7 | 90.7 |
| ≥ 4500            | 90.5                       | 91.0 | 91.1 | 91.1 | 91.2 | 91.2 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3   | 91.3 | 91.3 |
| ≥ 4000            | 91.3                       | 91.8 | 91.9 | 92.0 | 92.0 | 92.0 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1   | 92.1 | 92.1 |
| ≥ 3500            | 91.8                       | 92.5 | 92.5 | 92.7 | 92.7 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8   | 92.8 | 92.8 |
| ≥ 3000            | 92.5                       | 93.3 | 93.4 | 93.4 | 93.5 | 93.5 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6   | 93.6 | 93.6 |
| ≥ 2500            | 93.4                       | 94.2 | 94.3 | 94.4 | 94.4 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5   | 94.5 | 94.5 |
| ≥ 2000            | 94.0                       | 94.8 | 95.0 | 95.0 | 95.1 | 95.1 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2  | 95.2 | 95.2   | 95.2 | 95.2 |
| ≥ 1800            | 94.1                       | 94.9 | 95.2 | 95.3 | 95.3 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4   | 95.4 | 95.4 |
| ≥ 1500            | 95.3                       | 95.8 | 96.0 | 96.2 | 96.2 | 96.2 | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4 |
| ≥ 1200            | 95.2                       | 96.3 | 96.5 | 96.7 | 96.8 | 96.8 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 96.9   | 96.9 | 96.9 |
| ≥ 1000            | 95.2                       | 96.9 | 97.3 | 97.4 | 97.5 | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6   | 97.6 | 97.6 |
| ≥ 900             | 95.3                       | 96.9 | 97.3 | 97.5 | 97.5 | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6   | 97.6 | 97.6 |
| ≥ 800             | 95.3                       | 97.0 | 97.4 | 97.7 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 700             | 95.6                       | 97.0 | 97.4 | 97.7 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 600             | 95.6                       | 97.2 | 97.6 | 98.0 | 98.0 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1   | 98.1 | 98.1 |
| ≥ 500             | 95.6                       | 97.3 | 97.7 | 98.1 | 98.1 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 450             | 95.6                       | 97.3 | 97.9 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 400             | 95.6                       | 97.3 | 97.9 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 300             | 95.6                       | 97.3 | 97.9 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 200             | 95.6                       | 97.3 | 97.9 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 100             | 95.6                       | 97.3 | 97.9 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |
| ≥ 0               | 95.6                       | 97.3 | 97.9 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  | 98.5 | 98.5   | 98.5 | 98.5 |

TOTAL NUMBER OF OBSERVATIONS 2167

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28611

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLG-PETERSON FLD  
STATION NAME

47-47.49-68  
YEARS

12  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

144.3=2160  
HOURS (LST)

| CEILING<br>(FEET)     | VISIBILITY - STATUTE MILES |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|-----------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                       | ≥ 10                       | ≥ 6          | ≥ 5          | ≥ 4          | ≥ 3          | ≥ 2.5        | ≥ 2          | ≥ 1.5        | ≥ 1.0        | ≥ 0.5        | ≥ 0.25       | ≥ 0.15       | ≥ 0.1        | ≥ 0.05       | ≥ 0.025      | ≥ 0.01       |
| NO CEILING<br>≥ 20000 | 68.1<br>76.7               | 66.2<br>76.9 | 65.2<br>76.9 | 68.3<br>74.9 | 69.3<br>74.9 | 64.3<br>74.9 | 68.3<br>77.0 | 76.3<br>77.0 | 66.3<br>77.0 | 68.4<br>77.1 | 68.4<br>77.1 | 68.4<br>77.1 | 68.4<br>77.1 | 68.4<br>77.1 | 68.4<br>77.1 | 68.4<br>77.1 |
| 18000<br>16000        | 77.0<br>78.1               | 77.2<br>78.3 | 77.7<br>78.3 | 77.3<br>78.4 | 77.3<br>78.4 | 77.3<br>78.4 | 77.3<br>78.4 | 77.4<br>78.5 | 77.4<br>78.5 | 77.5<br>78.5 | 77.5<br>78.5 | 77.5<br>78.5 | 77.5<br>78.5 | 77.5<br>78.5 | 77.5<br>78.5 | 77.5<br>78.5 |
| 14000<br>12000        | 79.9<br>82.7               | 80.1<br>82.4 | 80.1<br>82.4 | 80.2<br>82.4 | 80.2<br>82.5 | 80.2<br>82.5 | 80.3<br>82.5 | 80.4<br>82.6 | 80.4<br>82.6 | 80.5<br>82.7 | 80.5<br>82.7 | 80.5<br>82.7 | 80.5<br>82.7 | 80.5<br>82.7 | 80.5<br>82.7 | 80.5<br>82.7 |
| 10000<br>9000         | 83.4<br>84.5               | 83.6<br>84.7 | 83.6<br>84.7 | 83.6<br>84.8 | 83.7<br>84.8 | 83.7<br>84.8 | 83.7<br>84.9 | 83.8<br>85.0 | 83.8<br>85.0 | 83.9<br>85.1 | 83.9<br>85.1 | 83.9<br>85.1 | 83.9<br>85.1 | 83.9<br>85.1 | 83.9<br>85.1 | 83.9<br>85.1 |
| 8000<br>7000          | 85.1<br>87.1               | 86.4<br>87.3 | 86.4<br>87.3 | 86.4<br>87.4 | 86.4<br>87.4 | 86.4<br>87.4 | 86.5<br>87.5 | 86.6<br>87.6 | 86.6<br>87.6 | 86.6<br>87.6 | 86.7<br>87.6 | 86.7<br>87.6 | 86.7<br>87.6 | 86.7<br>87.6 | 86.7<br>87.6 | 86.7<br>87.6 |
| 6000<br>5000          | 87.7<br>89.1               | 88.0<br>89.4 | 88.0<br>89.4 | 88.0<br>89.5 | 88.1<br>89.5 | 88.1<br>89.5 | 88.1<br>89.7 | 88.2<br>89.7 | 88.2<br>89.7 | 88.3<br>89.8 | 88.3<br>89.8 | 88.3<br>89.8 | 88.3<br>89.8 | 88.3<br>89.8 | 88.3<br>89.8 | 88.3<br>89.8 |
| 4500<br>4000          | 89.8<br>90.5               | 90.2<br>91.1 | 90.2<br>91.1 | 90.3<br>91.1 | 90.3<br>91.2 | 90.3<br>91.2 | 90.4<br>91.3 | 90.5<br>91.3 | 90.5<br>91.3 | 90.5<br>91.4 | 90.5<br>91.4 | 90.5<br>91.4 | 90.5<br>91.4 | 90.5<br>91.4 | 90.5<br>91.4 | 90.5<br>91.4 |
| 3500<br>3000          | 91.1<br>92.1               | 91.9<br>92.9 | 91.9<br>93.0 | 92.0<br>93.1 | 92.1<br>93.1 | 92.1<br>93.1 | 92.1<br>93.2 | 92.2<br>93.3 | 92.2<br>93.3 | 92.3<br>93.4 | 92.3<br>93.4 | 92.3<br>93.4 | 92.3<br>93.4 | 92.3<br>93.4 | 92.3<br>93.4 | 92.3<br>93.4 |
| 2500<br>2000          | 92.9<br>93.6               | 93.9<br>94.7 | 94.0<br>94.9 | 94.1<br>95.1 | 94.1<br>95.2 | 94.1<br>95.2 | 94.2<br>95.3 | 94.3<br>95.3 | 94.3<br>95.3 | 94.4<br>95.4 | 94.4<br>95.4 | 94.4<br>95.4 | 94.4<br>95.4 | 94.4<br>95.4 | 94.4<br>95.4 | 94.4<br>95.4 |
| 1800<br>1500          | 93.9<br>94.7               | 95.0<br>95.5 | 95.2<br>96.1 | 95.3<br>96.3 | 95.4<br>96.4 | 95.4<br>96.4 | 95.5<br>96.5 | 95.6<br>96.6 | 95.6<br>96.6 | 95.7<br>96.6 | 95.7<br>96.7 | 95.7<br>96.7 | 95.7<br>96.7 | 95.7<br>96.7 | 95.7<br>96.7 | 95.7<br>96.7 |
| 1200<br>1000          | 94.9<br>95.1               | 96.4<br>96.7 | 96.6<br>97.0 | 96.8<br>97.1 | 96.9<br>97.4 | 96.9<br>97.4 | 97.0<br>97.5 | 97.1<br>97.6 | 97.1<br>97.6 | 97.2<br>97.7 | 97.3<br>97.8 | 97.3<br>97.8 | 97.3<br>97.8 | 97.3<br>97.8 | 97.3<br>97.8 | 97.3<br>97.8 |
| 900<br>800            | 95.2<br>95.2               | 96.8<br>96.9 | 97.1<br>97.1 | 97.2<br>97.6 | 97.5<br>97.6 | 97.5<br>97.6 | 97.6<br>97.7 | 97.7<br>97.8 | 97.7<br>97.8 | 97.9<br>98.0 | 98.0<br>98.0 | 98.0<br>98.0 | 98.0<br>98.0 | 98.0<br>98.0 | 98.0<br>98.0 | 98.0<br>98.0 |
| 700<br>600            | 95.2<br>95.4               | 97.5<br>97.1 | 97.2<br>97.4 | 97.5<br>97.6 | 97.7<br>97.9 | 97.7<br>97.9 | 97.8<br>98.0 | 97.9<br>98.2 | 97.9<br>98.2 | 98.1<br>98.3 | 98.3<br>98.3 | 98.3<br>98.3 | 98.3<br>98.3 | 98.3<br>98.3 | 98.3<br>98.3 | 98.3<br>98.3 |
| 500<br>400            | 95.4<br>95.4               | 97.1<br>97.1 | 97.4<br>97.5 | 97.6<br>97.7 | 97.9<br>98.0 | 97.9<br>98.0 | 98.0<br>98.1 | 98.2<br>98.2 | 98.2<br>98.4 | 98.3<br>98.4 | 98.5<br>98.5 | 98.5<br>98.5 | 98.5<br>98.5 | 98.5<br>98.5 | 98.5<br>98.5 | 98.5<br>98.5 |
| 300<br>200            | 95.4<br>95.4               | 97.1<br>97.2 | 97.5<br>97.6 | 97.8<br>97.9 | 98.0<br>98.2 | 98.0<br>98.2 | 98.2<br>98.4 | 98.3<br>98.5 | 98.3<br>98.5 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 |
| 100<br>0              | 95.4<br>95.4               | 97.2<br>97.2 | 97.7<br>97.7 | 98.1<br>98.1 | 98.3<br>98.3 | 98.3<br>98.4 | 98.6<br>98.6 | 98.7<br>98.7 | 98.7<br>98.7 | 99.0<br>99.0 | 99.3<br>99.3 | 99.3<br>99.3 | 99.3<br>99.3 | 99.3<br>99.3 | 99.3<br>99.3 | 99.3<br>99.3 |

TOTAL NUMBER OF OBSERVATIONS 2167

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28871

# CEILING VERSUS VISIBILITY

STATION  
03017

STATION NAME  
COLORADO SPRINGS COLT-PETERSON, FD

47-47.49-N, 107-47-49-W

YEARS

PERCENT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1960-7, 1961  
MONTHS

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES): |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|-----------------------|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                       | ≥ 10                        | ≥ 6          | ≥ 5          | ≥ 4          | ≥ 3          | ≥ 2½         | ≥ 2          | ≥ 1½         | ≥ 1¼         | ≥ 1          | ≥ ¾          | ≥ 5/8        | ≥ ½          | ≥ 3/16       | ≥ 0          |
| NO CEILING<br>≥ 20000 | 73.5<br>79.0                | 73.6<br>79.4 | 73.6<br>79.4 | 73.9<br>79.5 | 73.9<br>79.5 | 73.9<br>79.6 | 73.9<br>79.6 | 74.0<br>79.7 | 74.0<br>79.7 | 74.0<br>79.7 | 74.0<br>79.7 | 74.0<br>79.7 | 74.0<br>79.7 | 74.0<br>79.7 | 74.0<br>79.7 |
| 18000<br>16000        | 79.3<br>80.5                | 79.9<br>81.0 | 80.0<br>81.1 | 80.1<br>81.2 | 80.1<br>81.2 | 80.1<br>81.2 | 80.1<br>81.2 | 80.2<br>81.3 | 80.2<br>81.3 | 80.3<br>81.4 | 80.3<br>81.4 | 80.3<br>81.4 | 80.3<br>81.4 | 80.3<br>81.4 | 80.3<br>81.4 |
| 14000<br>12000        | 81.4<br>83.3                | 81.6<br>83.0 | 81.9<br>83.7 | 82.0<br>83.8 | 82.0<br>83.8 | 82.0<br>83.9 | 82.0<br>83.9 | 82.1<br>84.0 | 82.1<br>84.0 | 82.2<br>84.0 | 82.2<br>84.0 | 82.2<br>84.0 | 82.2<br>84.0 | 82.2<br>84.0 | 82.2<br>84.0 |
| 10000<br>9000         | 84.2<br>86.7                | 84.6<br>85.1 | 84.7<br>85.7 | 84.7<br>85.3 | 84.7<br>85.3 | 84.8<br>85.3 | 84.8<br>85.3 | 84.9<br>85.4 | 84.9<br>85.4 | 84.9<br>85.4 | 84.9<br>85.4 | 84.9<br>85.4 | 84.9<br>85.4 | 84.9<br>85.4 | 84.9<br>85.4 |
| 8000<br>7000          | 85.4<br>86.0                | 85.6<br>86.4 | 85.9<br>86.5 | 85.9<br>86.5 | 85.9<br>86.5 | 86.0<br>86.6 | 86.0<br>86.6 | 86.1<br>86.7 | 86.1<br>86.7 | 86.1<br>86.7 | 86.1<br>86.7 | 86.1<br>86.7 | 86.1<br>86.7 | 86.1<br>86.7 | 86.1<br>86.7 |
| 6000<br>5000          | 86.0<br>87.3                | 87.0<br>87.9 | 87.1<br>88.0 | 87.1<br>88.1 | 87.1<br>88.1 | 87.2<br>88.1 | 87.2<br>88.1 | 87.3<br>88.2 | 87.3<br>88.2 | 87.3<br>88.2 | 87.3<br>88.2 | 87.3<br>88.2 | 87.3<br>88.2 | 87.3<br>88.2 | 87.3<br>88.2 |
| 4500<br>4000          | 88.2<br>88.5                | 88.6<br>89.3 | 88.7<br>89.4 | 88.8<br>89.3 | 88.8<br>89.3 | 88.8<br>89.6 | 88.8<br>89.6 | 88.9<br>89.7 | 88.9<br>89.7 | 89.0<br>89.7 | 89.0<br>89.7 | 89.0<br>89.7 | 89.0<br>89.7 | 89.0<br>89.7 | 89.0<br>89.7 |
| 3500<br>3000          | 90.5<br>90.7                | 90.4<br>91.2 | 90.6<br>91.3 | 90.6<br>91.4 | 90.6<br>91.4 | 90.7<br>91.5 | 90.7<br>91.5 | 90.8<br>91.6 | 90.8<br>91.6 | 90.8<br>91.6 | 90.8<br>91.6 | 90.8<br>91.6 | 90.8<br>91.6 | 90.8<br>91.6 | 90.8<br>91.6 |
| 2500<br>2000          | 91.3<br>92.2                | 91.8<br>92.9 | 91.9<br>93.1 | 92.0<br>93.2 | 92.0<br>93.2 | 92.0<br>93.3 | 92.0<br>93.3 | 92.1<br>93.4 | 92.1<br>93.4 | 92.2<br>93.4 | 92.2<br>93.4 | 92.2<br>93.4 | 92.2<br>93.4 | 92.2<br>93.4 | 92.2<br>93.4 |
| 1800<br>1500          | 92.9<br>92.9                | 93.2<br>93.9 | 93.6<br>94.2 | 93.7<br>94.3 | 93.7<br>94.4 | 93.8<br>94.4 | 93.8<br>94.4 | 93.9<br>94.5 | 93.9<br>94.5 | 94.0<br>94.6 | 94.0<br>94.6 | 94.0<br>94.6 | 94.0<br>94.6 | 94.0<br>94.6 | 94.0<br>94.6 |
| 1200<br>1000          | 93.0<br>93.7                | 94.7<br>95.0 | 95.1<br>95.4 | 95.3<br>95.6 | 95.4<br>95.8 | 95.4<br>95.9 | 95.4<br>95.9 | 95.5<br>96.0 | 95.6<br>96.1 | 95.7<br>96.1 | 95.7<br>96.1 | 95.7<br>96.1 | 95.7<br>96.1 | 95.7<br>96.1 | 95.7<br>96.1 |
| 900<br>800            | 93.9<br>93.9                | 95.2<br>95.3 | 95.6<br>95.6 | 95.8<br>95.9 | 96.0<br>96.0 | 96.0<br>96.1 | 96.0<br>96.1 | 96.2<br>96.3 | 96.2<br>96.3 | 96.4<br>96.5 | 96.4<br>96.5 | 96.4<br>96.5 | 96.4<br>96.5 | 96.4<br>96.5 | 96.4<br>96.5 |
| 700<br>600            | 93.9<br>94.1                | 95.3<br>95.8 | 95.7<br>96.0 | 95.9<br>96.3 | 96.1<br>96.5 | 96.2<br>96.5 | 96.2<br>96.5 | 96.4<br>96.7 | 96.4<br>96.7 | 96.6<br>96.9 | 96.6<br>97.1 | 96.6<br>97.1 | 96.6<br>97.1 | 96.6<br>97.1 | 96.6<br>97.1 |
| 500<br>400            | 94.2<br>94.4                | 95.8<br>96.1 | 96.2<br>96.6 | 96.5<br>96.9 | 96.9<br>97.3 | 96.9<br>97.3 | 97.0<br>97.3 | 97.1<br>97.4 | 97.1<br>97.4 | 97.2<br>97.6 | 97.2<br>97.6 | 97.2<br>97.6 | 97.2<br>97.6 | 97.2<br>97.6 | 97.2<br>97.6 |
| 300<br>200            | 94.4<br>94.4                | 96.3<br>96.3 | 96.7<br>96.8 | 97.1<br>97.1 | 97.5<br>97.5 | 97.5<br>97.5 | 97.5<br>97.5 | 97.6<br>97.8 | 97.6<br>97.8 | 97.9<br>98.2 | 97.9<br>98.2 | 97.9<br>98.2 | 97.9<br>98.2 | 97.9<br>98.2 | 97.9<br>98.2 |
| 100<br>0              | 94.5<br>94.5                | 96.5<br>96.5 | 96.9<br>96.9 | 97.2<br>97.2 | 97.8<br>97.8 | 97.8<br>97.8 | 97.8<br>97.8 | 98.2<br>98.2 | 98.2<br>98.2 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 | 98.7<br>98.7 |

TOTAL NUMBER OF OBSERVATIONS 2177

DATA PROCESSING DIVISION  
ETAC 0047  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93017 COLLEGE SPRINGS COLO-PETERSON Fld

72-47-49-10

1967

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ¾    | ≥ 5/8 | ¾    | ≥ 5/16 | ¼    | ≥ 0   |
| NO CEILING        | 56.5                       | 66.0 | 66.8 | 66.5 | 66.8 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 67.1 | 67.0  | 67.0 | 67.0   | 67.0 | 67.0  |
| ≥ 20000           | 76.5                       | 76.6 | 76.9 | 76.9 | 76.9 | 76.9 | 77.0 | 77.0 | 77.0 | 77.1 | 77.1 | 77.1  | 77.1 | 77.1   | 77.1 | 77.1  |
| ≥ 18000           | 77.5                       | 77.5 | 77.5 | 77.6 | 77.6 | 77.6 | 77.7 | 77.7 | 77.7 | 77.8 | 77.8 | 77.8  | 77.8 | 77.8   | 77.8 | 77.8  |
| ≥ 16000           | 78.0                       | 78.0 | 78.8 | 78.9 | 78.9 | 78.9 | 79.1 | 79.0 | 79.0 | 79.1 | 79.1 | 79.1  | 79.1 | 79.1   | 79.1 | 79.1  |
| ≥ 14000           | 79.0                       | 80.9 | 80.9 | 80.9 | 7.9  | 81.0 | 81.0 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1 | 81.1   | 81.1 | 81.2  |
| ≥ 12000           | 82.7                       | 82.0 | 82.0 | 83.0 | 83.1 | 83.1 | 83.1 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2  | 83.2 | 83.2   | 83.2 | 83.3  |
| ≥ 10000           | 83.9                       | 84.1 | 84.2 | 84.2 | 84.2 | 84.3 | 84.3 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4 | 84.4   | 84.4 | 84.5  |
| ≥ 9000            | 84.0                       | 84.9 | 84.9 | 84.9 | 84.9 | 85.0 | 85.0 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1 | 85.1   | 85.2 | 85.2  |
| ≥ 8000            | 85.8                       | 86.0 | 86.1 | 86.1 | 86.1 | 86.2 | 86.2 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3   | 86.3 | 86.4  |
| ≥ 7000            | 86.2                       | 86.8 | 86.9 | 86.9 | 86.9 | 86.9 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 | 87.1  |
| ≥ 6000            | 87.4                       | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0   | 88.0 | 88.0  |
| ≥ 5000            | 88.3                       | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.9 | 88.9 | 88.9 | 89.0 | 89.0  | 89.0 | 89.0   | 89.0 | 89.0  |
| ≥ 4500            | 88.7                       | 89.1 | 89.2 | 89.2 | 89.2 | 89.3 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4   | 89.4 | 89.4  |
| ≥ 4000            | 89.3                       | 89.8 | 89.8 | 89.9 | 89.9 | 90.0 | 90.0 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1  | 90.1 | 90.1   | 90.2 | 90.2  |
| ≥ 3500            | 90.9                       | 90.4 | 90.5 | 90.6 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8   | 90.8 | 90.8  |
| ≥ 3000            | 90.7                       | 91.3 | 91.3 | 91.4 | 91.4 | 91.5 | 91.5 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6  | 91.6 | 91.6   | 91.7 | 91.7  |
| ≥ 2500            | 91.1                       | 91.7 | 91.9 | 92.0 | 92.1 | 92.1 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2 | 92.2   | 92.3 | 92.3  |
| ≥ 2000            | 92.0                       | 92.7 | 92.9 | 92.9 | 93.0 | 93.0 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 | 93.2  |
| ≥ 1800            | 92.2                       | 93.0 | 93.1 | 93.2 | 93.3 | 93.3 | 93.4 | 93.4 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5   | 93.5 | 93.6  |
| ≥ 1500            | 92.9                       | 93.7 | 93.9 | 94.0 | 94.1 | 94.1 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3   | 94.4 | 94.4  |
| ≥ 1200            | 93.9                       | 94.3 | 94.5 | 94.7 | 94.7 | 94.8 | 94.9 | 94.9 | 95.0 | 95.0 | 95.0 | 95.0  | 95.1 | 95.1   | 95.1 | 95.1  |
| ≥ 1000            | 93.7                       | 94.8 | 95.0 | 95.2 | 95.4 | 95.4 | 95.5 | 95.6 | 95.6 | 95.7 | 95.7 | 95.7  | 95.8 | 95.8   | 95.8 | 95.8  |
| ≥ 900             | 93.8                       | 95.0 | 95.2 | 95.4 | 95.5 | 95.6 | 95.7 | 95.8 | 95.8 | 95.9 | 96.0 | 96.0  | 96.0 | 96.0   | 96.0 | 96.1  |
| ≥ 800             | 93.9                       | 95.2 | 95.5 | 95.7 | 95.8 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 | 96.4  |
| ≥ 700             | 94.0                       | 95.3 | 95.6 | 95.9 | 96.0 | 96.1 | 96.2 | 96.3 | 96.4 | 96.5 | 96.6 | 96.6  | 96.6 | 96.6   | 96.7 | 96.7  |
| ≥ 600             | 94.2                       | 95.5 | 95.9 | 96.2 | 96.3 | 96.4 | 96.5 | 96.7 | 96.7 | 96.8 | 97.0 | 97.0  | 97.0 | 97.0   | 97.1 | 97.1  |
| ≥ 500             | 94.2                       | 95.7 | 96.1 | 96.4 | 96.7 | 96.7 | 96.9 | 97.1 | 97.1 | 97.3 | 97.4 | 97.5  | 97.5 | 97.6   | 97.6 | 97.6  |
| ≥ 400             | 94.3                       | 95.9 | 96.4 | 96.7 | 97.0 | 97.1 | 97.3 | 97.5 | 97.5 | 97.6 | 98.0 | 98.0  | 98.1 | 98.2   | 98.2 | 98.2  |
| ≥ 300             | 94.4                       | 96.0 | 96.5 | 96.9 | 97.3 | 97.4 | 97.6 | 97.8 | 97.9 | 98.1 | 98.1 | 98.4  | 98.4 | 98.4   | 98.7 | 98.8  |
| ≥ 200             | 94.4                       | 96.1 | 96.6 | 97.0 | 97.4 | 97.5 | 97.7 | 98.0 | 98.1 | 98.4 | 98.4 | 98.7  | 98.7 | 98.7   | 99.0 | 99.3  |
| ≥ 100             | 94.4                       | 96.1 | 96.6 | 97.0 | 97.4 | 97.5 | 97.8 | 98.1 | 98.1 | 98.4 | 98.7 | 98.7  | 99.1 | 99.2   | 99.4 | 99.7  |
| ≥ 0               | 94.4                       | 96.1 | 96.6 | 97.0 | 97.4 | 97.5 | 97.8 | 98.1 | 98.1 | 98.5 | 98.7 | 98.8  | 99.1 | 99.2   | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 17341

DATE: PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28001

# CEILING VERSUS VISIBILITY

STATION: 03007 COLUMBIA SPRINGS COLLEGE-TERESA, FL STATION NAME: 47-47-48-000 YEARS: MONTH: HOURS (LST):

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 67.3                       | 67.0 | 67.7 | 67.0 | 67.3 | 67.8 | 67.0 | 67.8 | 67.3 | 67.0 | 67.3 | 67.8  | 67.3 | 67.7   | 67.0 | 67.8 |
| ≥ 22000           | 76.6                       | 76.7 | 76.7 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 77.0 | 77.0  | 77.3 | 77.6   | 77.0 | 77.9 |
| ≥ 18000           | 77.3                       | 77.0 | 77.0 | 77.3 | 77.8 | 77.8 | 77.8 | 77.8 | 77.3 | 77.6 | 77.9 | 77.9  | 77.9 | 77.9   | 77.9 | 77.9 |
| ≥ 16000           | 78.5                       | 79.1 | 79.2 | 79.3 | 79.4 | 79.4 | 79.4 | 79.6 | 79.4 | 79.4 | 79.4 | 79.4  | 79.4 | 79.4   | 79.4 | 79.4 |
| ≥ 14000           | 81.2                       | 81.5 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7   | 81.7 | 81.7 |
| ≥ 12000           | 82.8                       | 83.2 | 83.3 | 83.3 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5  | 83.5 | 83.5   | 83.5 | 83.5 |
| ≥ 10000           | 84.2                       | 84.2 | 84.3 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5 | 84.5   | 84.5 | 84.5 |
| ≥ 9000            | 84.4                       | 84.7 | 84.8 | 84.9 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0  | 85.0 | 85.0   | 85.0 | 85.0 |
| ≥ 8000            | 85.2                       | 85.2 | 85.3 | 85.4 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  | 85.5 | 85.5   | 85.5 | 85.5 |
| ≥ 7000            | 85.2                       | 85.7 | 85.7 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9   | 85.9 | 85.9 |
| ≥ 6000            | 86.3                       | 86.9 | 86.0 | 86.2 | 86.2 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3   | 86.3 | 86.3 |
| ≥ 5000            | 86.2                       | 86.7 | 86.8 | 87.0 | 87.0 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 | 87.1 |
| ≥ 4500            | 86.8                       | 87.3 | 87.5 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8  | 87.8 | 87.8   | 87.8 | 87.8 |
| ≥ 4000            | 87.4                       | 88.2 | 88.2 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5 | 88.5   | 88.5 | 88.5 |
| ≥ 3500            | 87.9                       | 88.9 | 89.0 | 89.2 | 89.2 | 89.2 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3 | 89.3   | 89.3 | 89.3 |
| ≥ 3000            | 88.3                       | 89.5 | 89.7 | 89.9 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0   | 90.0 | 90.0 |
| ≥ 2500            | 89.0                       | 90.1 | 90.3 | 90.6 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8   | 90.8 | 90.8 |
| ≥ 2000            | 89.4                       | 90.7 | 90.9 | 91.3 | 91.4 | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5 | 91.5   | 91.5 | 91.5 |
| ≥ 1800            | 89.6                       | 90.9 | 91.2 | 91.6 | 91.7 | 91.7 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8   | 91.8 | 91.8 |
| ≥ 1500            | 90.1                       | 91.7 | 91.9 | 92.4 | 92.6 | 92.6 | 92.8 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9   | 92.9 | 92.9 |
| ≥ 1200            | 90.4                       | 92.0 | 92.4 | 92.8 | 93.0 | 93.0 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 | 93.4   | 93.4 | 93.4 |
| ≥ 1000            | 90.8                       | 92.5 | 92.8 | 93.3 | 93.5 | 93.5 | 93.8 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 | 93.9 |
| ≥ 900             | 90.8                       | 92.6 | 92.9 | 93.4 | 93.7 | 93.7 | 93.9 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1   | 94.1 | 94.1 |
| ≥ 800             | 91.1                       | 92.9 | 93.2 | 93.7 | 94.0 | 94.0 | 94.2 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4  | 94.4 | 94.4   | 94.4 | 94.4 |
| ≥ 700             | 91.1                       | 93.0 | 93.3 | 93.8 | 94.1 | 94.1 | 94.4 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6   | 94.6 | 94.6 |
| ≥ 600             | 91.1                       | 93.0 | 93.4 | 94.0 | 94.3 | 94.4 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 | 94.9 |
| ≥ 500             | 91.1                       | 93.1 | 93.6 | 94.1 | 94.5 | 94.6 | 95.0 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2  | 95.2 | 95.2   | 95.2 | 95.2 |
| ≥ 400             | 91.1                       | 93.3 | 93.8 | 94.4 | 94.8 | 94.9 | 95.3 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5  | 95.5 | 95.5   | 95.5 | 95.5 |
| ≥ 300             | 91.2                       | 93.4 | 93.9 | 94.6 | 95.0 | 95.2 | 95.7 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0   | 96.0 | 96.0 |
| ≥ 200             | 91.3                       | 93.6 | 94.1 | 94.8 | 95.2 | 95.4 | 95.9 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3  | 96.3 | 96.3   | 96.3 | 96.3 |
| ≥ 100             | 91.4                       | 93.7 | 94.2 | 94.9 | 95.3 | 95.5 | 96.0 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5   | 96.5 | 96.5 |
| ≥ 0               | 91.4                       | 93.7 | 94.2 | 94.9 | 95.3 | 95.5 | 96.0 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5  | 96.5 | 96.5   | 96.5 | 96.5 |

TOTAL NUMBER OF OBSERVATIONS: 2098

DATA PROCESSING DIVISION  
ETAC, 1964  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLORADO-PETERSON, FO  
STATION NAME

47-47.49-26  
EARS

1 V  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0.750-0.990  
HOURS (L.S.T.)

| CEILING<br>FEET       | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |       |        |        |        |        |         |        |
|-----------------------|----------------------------|------|------|------|------|-------|------|-------|-------|-------|--------|--------|--------|--------|---------|--------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.10 | ≥ 0.05 | ≥ 0.025 | ≥ 0.01 |
| NO CEILING<br>≥ 20000 | 67.6                       | 67.0 | 67.0 | 66.1 | 65.1 | 64.1  | 63.7 | 63.2  | 62.2  | 61.2  | 60.2   | 59.2   | 58.2   | 57.2   | 56.2    | 55.2   |
| ≥ 18000               | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 16000               | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 14000               | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 12000               | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 10000               | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 8000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 6000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 5000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 4500                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 4000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 3500                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 3000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 2500                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 2000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 1800                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 1500                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 1200                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 1000                | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 900                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 800                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 700                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 600                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 500                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 400                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 300                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 200                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 100                 | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |
| ≥ 0                   | 75.0                       | 75.0 | 75.0 | 75.0 | 75.0 | 75.0  | 75.0 | 75.0  | 75.0  | 75.0  | 75.0   | 75.0   | 75.0   | 75.0   | 75.0    | 75.0   |

TOTAL NUMBER OF OBSERVATIONS 2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28811

# CEILING VERSUS VISIBILITY

93017  
STATION

COLUMBIA SPRINGS COL-PETERSON FLD  
STATION NAME

42-47,49-36  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

70  
HOURS (5.1)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ 0  |
| NO CEILING        | 55.9                       | 45.4 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9  | 55.9 | 55.9   | 55.9 |
| ≥ 20000           | 55.9                       | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1  | 70.1 | 70.1   | 70.1 |
| ≥ 18000           | 71.7                       | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7  | 71.7 | 71.7   | 71.7 |
| ≥ 16000           | 74.7                       | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7   | 74.7 |
| ≥ 14000           | 78.9                       | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9 | 78.9  | 78.9 | 78.9   | 78.9 |
| ≥ 12000           | 81.9                       | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9 | 81.9  | 81.9 | 81.9   | 81.9 |
| ≥ 10000           | 83.8                       | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 | 83.8   | 83.8 |
| ≥ 9000            | 84.1                       | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1   | 84.1 |
| ≥ 8000            | 84.9                       | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9  | 84.9 | 84.9   | 84.9 |
| ≥ 7000            | 85.4                       | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4  | 85.4 | 85.4   | 85.4 |
| ≥ 6000            | 86.1                       | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1  | 86.1 | 86.1   | 86.1 |
| ≥ 5000            | 87.1                       | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1   | 87.1 |
| ≥ 4500            | 87.2                       | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2  | 87.2 | 87.2   | 87.2 |
| ≥ 4000            | 87.6                       | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6 | 87.6   | 87.6 |
| ≥ 3500            | 88.1                       | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1   | 88.1 |
| ≥ 3000            | 89.1                       | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1  | 89.1 | 89.1   | 89.1 |
| ≥ 2500            | 89.7                       | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.7   | 89.7 |
| ≥ 2000            | 90.7                       | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7   | 90.7 |
| ≥ 1800            | 91.0                       | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0  | 91.0 | 91.0   | 91.0 |
| ≥ 1600            | 91.1                       | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1 | 91.1   | 91.1 |
| ≥ 1400            | 91.3                       | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3   | 91.3 |
| ≥ 1200            | 91.8                       | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8   | 91.8 |
| ≥ 1000            | 92.2                       | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2 | 92.2   | 92.2 |
| ≥ 900             | 92.3                       | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3  | 92.3 | 92.3   | 92.3 |
| ≥ 800             | 92.5                       | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5   | 92.5 |
| ≥ 700             | 92.9                       | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9 | 92.9   | 92.9 |
| ≥ 600             | 93.2                       | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 |
| ≥ 500             | 93.3                       | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3   | 93.3 |
| ≥ 400             | 93.5                       | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5   | 93.5 |
| ≥ 300             | 93.9                       | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9   | 93.9 |
| ≥ 200             | 94.3                       | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3   | 94.3 |
| ≥ 100             | 94.7                       | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7   | 94.7 |
| ≥ 0               | 95.0                       | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0 | 95.0   | 95.0 |

TOTAL NUMBER OF OBSERVATIONS 2097

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037 COLORADO SPRINGS COLG-PETERSON FD

42-07,42-08

YEARS

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07-07-1960  
HOURS 11:00

| CEILING<br>(FEET) | VISIBILITY, STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |       |        |        |      |
|-------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|--------|--------|------|
|                   | ≥ 10                      | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/8 | ≥ 1/16 | ≥ 1/32 | ≥ 0  |
| NO CEILING        | 54.7                      | 54.7 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8  | 54.8   | 54.8   | 54.8 |
| ≥ 20000           | 71.5                      | 71.5 | 71.7 | 71.7 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8  | 71.8   | 71.8   | 71.8 |
| ≥ 18000           | 72.8                      | 72.8 | 73.0 | 73.0 | 73.0 | 73.0 | 73.0 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1  | 73.1   | 73.1   | 73.1 |
| ≥ 16000           | 75.7                      | 75.7 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9 | 75.9  | 75.9   | 75.9   | 75.9 |
| ≥ 14000           | 79.6                      | 79.6 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8  | 79.8   | 79.8   | 79.8 |
| ≥ 12000           | 82.7                      | 82.7 | 83.1 | 83.1 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2 | 83.2  | 83.2   | 83.2   | 83.2 |
| ≥ 10000           | 83.8                      | 83.8 | 84.3 | 84.3 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4   | 84.4   | 84.4 |
| ≥ 9000            | 83.9                      | 83.9 | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5   | 84.5   | 84.5 |
| ≥ 8000            | 84.3                      | 84.3 | 85.0 | 85.0 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1   | 85.1   | 85.1 |
| ≥ 7000            | 84.9                      | 84.9 | 85.3 | 85.3 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  | 85.5   | 85.5   | 85.5 |
| ≥ 6000            | 85.4                      | 85.4 | 85.6 | 85.6 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8   | 85.8   | 85.8 |
| ≥ 5000            | 85.8                      | 85.8 | 86.5 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6   | 86.6   | 86.6 |
| ≥ 4500            | 86.1                      | 86.1 | 87.0 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1   | 87.1   | 87.1 |
| ≥ 4000            | 86.9                      | 86.9 | 87.8 | 87.8 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  | 87.9   | 87.9   | 87.9 |
| ≥ 3500            | 87.3                      | 87.3 | 88.2 | 88.2 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4  | 88.4   | 88.4   | 88.4 |
| ≥ 3000            | 88.3                      | 88.3 | 89.3 | 89.3 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5   | 89.5   | 89.5 |
| ≥ 2500            | 89.9                      | 89.9 | 90.9 | 90.9 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0  | 91.0   | 91.0   | 91.0 |
| ≥ 2000            | 90.7                      | 90.7 | 90.8 | 90.8 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0 | 91.0  | 91.0   | 91.0   | 91.0 |
| ≥ 1800            | 90.9                      | 90.9 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1 | 91.1  | 91.1   | 91.1   | 91.1 |
| ≥ 1500            | 90.5                      | 90.5 | 91.6 | 91.6 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8   | 91.8   | 91.8 |
| ≥ 1200            | 90.5                      | 90.5 | 92.0 | 92.0 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3  | 92.3   | 92.3   | 92.3 |
| ≥ 1000            | 90.9                      | 90.9 | 92.6 | 92.6 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1  | 93.1   | 93.1   | 93.1 |
| ≥ 900             | 91.1                      | 91.1 | 93.0 | 93.0 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3   | 93.3   | 93.3 |
| ≥ 800             | 91.2                      | 91.2 | 93.3 | 93.3 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0   | 94.0   | 94.0 |
| ≥ 700             | 91.5                      | 91.5 | 93.8 | 93.8 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5   | 94.5   | 94.5 |
| ≥ 600             | 91.6                      | 91.6 | 93.9 | 93.9 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8  | 94.8   | 94.8   | 94.8 |
| ≥ 500             | 91.7                      | 91.7 | 94.1 | 94.1 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0   | 95.0   | 95.0 |
| ≥ 400             | 91.7                      | 91.7 | 94.2 | 94.2 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1   | 95.1   | 95.1 |
| ≥ 300             | 91.7                      | 91.7 | 94.2 | 94.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3   | 95.3   | 95.3 |
| ≥ 200             | 91.7                      | 91.7 | 94.2 | 94.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3   | 95.3   | 95.3 |
| ≥ 100             | 91.7                      | 91.7 | 94.2 | 94.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3   | 95.3   | 95.3 |
| ≥ 0               | 91.7                      | 91.7 | 94.2 | 94.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3   | 95.3   | 95.3 |

TOTAL NUMBER OF OBSERVATIONS

2100

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93017  
STATION

COLORADO SPRINGS COLG-PETERSON, CO  
STATION NAME

47-41-49-68  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1735-1-60  
HOURS (U.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |         |      |         |         |      |       |       |       |        |       |      |
|-----------------------|----------------------------|------|------|------|------|---------|------|---------|---------|------|-------|-------|-------|--------|-------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2 1/2 | ≥ 2  | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1  | ≥ 3/4 | ≥ 5/8 | ≥ 1/2 | ≥ 5/16 | ≥ 1/4 | ≥ 0  |
| NO CEILING<br>≥ 20000 | 52.5                       | 52.7 | 52.7 | 52.7 | 52.7 | 52.7    | 52.7 | 52.7    | 52.7    | 52.7 | 52.7  | 52.7  | 52.7  | 52.7   | 52.7  | 52.7 |
| ≥ 18000               | 71.7                       | 71.8 | 71.8 | 71.8 | 71.8 | 71.8    | 71.8 | 71.8    | 71.8    | 71.8 | 71.8  | 71.8  | 71.8  | 71.8   | 71.8  | 71.8 |
| ≥ 16000               | 73.8                       | 74.0 | 74.0 | 74.0 | 74.0 | 74.0    | 74.0 | 74.0    | 74.0    | 74.0 | 74.0  | 74.0  | 74.0  | 74.0   | 74.0  | 74.0 |
| ≥ 14000               | 78.3                       | 78.5 | 78.5 | 78.5 | 78.5 | 78.5    | 78.5 | 78.5    | 78.5    | 78.5 | 78.5  | 78.5  | 78.5  | 78.5   | 78.5  | 78.5 |
| ≥ 12000               | 82.3                       | 82.5 | 82.5 | 82.5 | 82.5 | 82.5    | 82.5 | 82.5    | 82.5    | 82.5 | 82.5  | 82.5  | 82.5  | 82.5   | 82.5  | 82.5 |
| ≥ 10000               | 84.3                       | 84.5 | 84.5 | 84.5 | 84.5 | 84.5    | 84.5 | 84.5    | 84.5    | 84.5 | 84.5  | 84.5  | 84.5  | 84.5   | 84.5  | 84.5 |
| ≥ 9000                | 84.8                       | 84.8 | 84.8 | 84.8 | 84.8 | 84.8    | 84.8 | 84.8    | 84.8    | 84.8 | 84.8  | 84.8  | 84.8  | 84.8   | 84.8  | 84.8 |
| ≥ 8000                | 85.4                       | 85.6 | 85.6 | 85.6 | 85.6 | 85.6    | 85.6 | 85.6    | 85.6    | 85.6 | 85.6  | 85.6  | 85.6  | 85.6   | 85.6  | 85.6 |
| ≥ 7000                | 86.3                       | 86.5 | 86.5 | 86.5 | 86.5 | 86.5    | 86.5 | 86.5    | 86.5    | 86.5 | 86.5  | 86.5  | 86.5  | 86.5   | 86.5  | 86.5 |
| ≥ 6000                | 87.3                       | 87.7 | 87.7 | 87.7 | 87.7 | 87.7    | 87.7 | 87.7    | 87.7    | 87.7 | 87.7  | 87.7  | 87.7  | 87.7   | 87.7  | 87.7 |
| ≥ 5000                | 88.3                       | 88.5 | 88.5 | 88.5 | 88.5 | 88.5    | 88.5 | 88.5    | 88.5    | 88.5 | 88.5  | 88.5  | 88.5  | 88.5   | 88.5  | 88.5 |
| ≥ 4500                | 89.1                       | 89.1 | 89.1 | 89.1 | 89.1 | 89.1    | 89.1 | 89.1    | 89.1    | 89.1 | 89.1  | 89.1  | 89.1  | 89.1   | 89.1  | 89.1 |
| ≥ 4000                | 89.7                       | 90.0 | 90.0 | 90.0 | 90.0 | 90.0    | 90.0 | 90.0    | 90.0    | 90.0 | 90.0  | 90.0  | 90.0  | 90.0   | 90.0  | 90.0 |
| ≥ 3500                | 90.3                       | 90.7 | 90.7 | 90.7 | 90.7 | 90.7    | 90.7 | 90.7    | 90.7    | 90.7 | 90.7  | 90.7  | 90.7  | 90.7   | 90.7  | 90.7 |
| ≥ 3000                | 91.3                       | 91.7 | 91.7 | 91.7 | 91.7 | 91.7    | 91.7 | 91.7    | 91.7    | 91.7 | 91.7  | 91.7  | 91.7  | 91.7   | 91.7  | 91.7 |
| ≥ 2500                | 91.7                       | 92.3 | 92.3 | 92.3 | 92.3 | 92.3    | 92.3 | 92.3    | 92.3    | 92.3 | 92.3  | 92.3  | 92.3  | 92.3   | 92.3  | 92.3 |
| ≥ 2000                | 92.3                       | 93.1 | 93.1 | 93.1 | 93.1 | 93.1    | 93.1 | 93.1    | 93.1    | 93.1 | 93.1  | 93.1  | 93.1  | 93.1   | 93.1  | 93.1 |
| ≥ 1800                | 92.4                       | 93.4 | 93.4 | 93.4 | 93.4 | 93.4    | 93.4 | 93.4    | 93.4    | 93.4 | 93.4  | 93.4  | 93.4  | 93.4   | 93.4  | 93.4 |
| ≥ 1500                | 92.5                       | 93.6 | 93.6 | 93.6 | 93.6 | 93.6    | 93.6 | 93.6    | 93.6    | 93.6 | 93.6  | 93.6  | 93.6  | 93.6   | 93.6  | 93.6 |
| ≥ 1200                | 93.0                       | 94.4 | 94.4 | 94.4 | 94.4 | 94.4    | 94.4 | 94.4    | 94.4    | 94.4 | 94.4  | 94.4  | 94.4  | 94.4   | 94.4  | 94.4 |
| ≥ 1000                | 93.1                       | 94.8 | 94.8 | 94.8 | 94.8 | 94.8    | 94.8 | 94.8    | 94.8    | 94.8 | 94.8  | 94.8  | 94.8  | 94.8   | 94.8  | 94.8 |
| ≥ 900                 | 93.2                       | 95.0 | 95.0 | 95.0 | 95.0 | 95.0    | 95.0 | 95.0    | 95.0    | 95.0 | 95.0  | 95.0  | 95.0  | 95.0   | 95.0  | 95.0 |
| ≥ 800                 | 93.2                       | 95.0 | 95.0 | 95.0 | 95.0 | 95.0    | 95.0 | 95.0    | 95.0    | 95.0 | 95.0  | 95.0  | 95.0  | 95.0   | 95.0  | 95.0 |
| ≥ 700                 | 93.3                       | 95.1 | 95.1 | 95.1 | 95.1 | 95.1    | 95.1 | 95.1    | 95.1    | 95.1 | 95.1  | 95.1  | 95.1  | 95.1   | 95.1  | 95.1 |
| ≥ 600                 | 93.3                       | 95.2 | 95.2 | 95.2 | 95.2 | 95.2    | 95.2 | 95.2    | 95.2    | 95.2 | 95.2  | 95.2  | 95.2  | 95.2   | 95.2  | 95.2 |
| ≥ 500                 | 93.4                       | 95.4 | 95.4 | 95.4 | 95.4 | 95.4    | 95.4 | 95.4    | 95.4    | 95.4 | 95.4  | 95.4  | 95.4  | 95.4   | 95.4  | 95.4 |
| ≥ 400                 | 93.4                       | 95.5 | 95.5 | 95.5 | 95.5 | 95.5    | 95.5 | 95.5    | 95.5    | 95.5 | 95.5  | 95.5  | 95.5  | 95.5   | 95.5  | 95.5 |
| ≥ 300                 | 93.4                       | 95.7 | 95.7 | 95.7 | 95.7 | 95.7    | 95.7 | 95.7    | 95.7    | 95.7 | 95.7  | 95.7  | 95.7  | 95.7   | 95.7  | 95.7 |
| ≥ 200                 | 93.5                       | 95.8 | 95.8 | 95.8 | 95.8 | 95.8    | 95.8 | 95.8    | 95.8    | 95.8 | 95.8  | 95.8  | 95.8  | 95.8   | 95.8  | 95.8 |
| ≥ 100                 | 93.5                       | 95.9 | 95.9 | 95.9 | 95.9 | 95.9    | 95.9 | 95.9    | 95.9    | 95.9 | 95.9  | 95.9  | 95.9  | 95.9   | 95.9  | 95.9 |
| ≥ 0                   | 93.5                       | 95.9 | 95.9 | 95.9 | 95.9 | 95.9    | 95.9 | 95.9    | 95.9    | 95.9 | 95.9  | 95.9  | 95.9  | 95.9   | 95.9  | 95.9 |

TOTAL NUMBER OF OBSERVATIONS 2099

5

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

73017  
STATION

CLARKSDALE SPRINGS, COLORADO-PETERSON FLD  
STATION NAME

12-97,49-56  
YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

15.000 100  
HOURS (1.51)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |       |       |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/8 | > 1/8 | ≥ 1/16 | ≥ 0  |
| NO CEILING        | 51.7                       | 52.0 | 52.1 | 52.2 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3  | 52.3   | 52.3 |
| ≥ 20000           | 72.2                       | 72.2 | 72.4 | 72.5 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6  | 72.6  | 72.6   | 72.6 |
| 18000             | 73.5                       | 73.5 | 73.9 | 74.0 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1  | 74.1  | 74.1   | 74.1 |
| 16000             | 76.0                       | 76.2 | 76.3 | 76.4 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5  | 76.5  | 76.5   | 76.5 |
| 14000             | 80.0                       | 80.1 | 80.2 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4  | 80.4  | 80.4   | 80.4 |
| 12000             | 83.1                       | 83.4 | 83.4 | 83.7 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6  | 83.6  | 83.6   | 83.6 |
| 10000             | 84.3                       | 84.7 | 84.8 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0  | 85.0  | 85.0   | 85.0 |
| 9000              | 85.0                       | 85.2 | 85.3 | 85.5 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6  | 85.6  | 85.6   | 85.6 |
| 8000              | 86.0                       | 86.2 | 86.3 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6  | 86.6   | 86.6 |
| 7000              | 87.0                       | 87.2 | 87.3 | 87.5 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6  | 87.6   | 87.6 |
| 6000              | 88.1                       | 88.4 | 88.4 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6  | 88.6  | 88.6   | 88.6 |
| 5000              | 89.0                       | 89.2 | 89.3 | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  | 89.6  | 89.6   | 89.6 |
| 4500              | 89.3                       | 89.4 | 89.5 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8  | 89.8  | 89.8   | 89.8 |
| 4000              | 90.3                       | 90.5 | 90.5 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8  | 90.8   | 90.8 |
| 3500              | 90.8                       | 91.0 | 91.2 | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5  | 91.5   | 91.5 |
| 3000              | 91.4                       | 91.9 | 92.1 | 92.4 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5  | 92.5   | 92.5 |
| 2500              | 92.0                       | 92.5 | 92.8 | 93.1 | 93.1 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2  | 93.2   | 93.2 |
| 2000              | 92.6                       | 93.3 | 93.6 | 94.0 | 94.1 | 94.1 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2  | 94.2  | 94.2   | 94.2 |
| 1800              | 92.7                       | 93.6 | 93.9 | 94.2 | 94.4 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5  | 94.5   | 94.5 |
| 1500              | 92.9                       | 93.7 | 94.0 | 94.4 | 94.6 | 94.6 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7  | 94.7   | 94.7 |
| 1200              | 92.9                       | 93.9 | 94.3 | 94.7 | 95.0 | 95.0 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3  | 95.3   | 95.3 |
| 1000              | 93.2                       | 94.2 | 94.6 | 95.0 | 95.3 | 95.3 | 95.5 | 95.6 | 95.7 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9  | 95.9   | 95.9 |
| 900               | 93.2                       | 94.4 | 94.8 | 95.2 | 95.5 | 95.5 | 95.9 | 95.9 | 95.9 | 96.1 | 96.2 | 96.2 | 96.2  | 96.2  | 96.2   | 96.2 |
| 800               | 93.3                       | 94.5 | 94.9 | 95.4 | 95.8 | 95.8 | 96.0 | 96.2 | 96.2 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4  | 96.4   | 96.4 |
| 700               | 93.3                       | 94.6 | 95.1 | 95.7 | 96.1 | 96.1 | 96.4 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9  | 96.9   | 96.9 |
| 600               | 93.6                       | 94.7 | 95.3 | 96.0 | 96.5 | 96.5 | 96.6 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2  | 97.2  | 97.2   | 97.2 |
| 500               | 93.8                       | 94.9 | 95.5 | 96.3 | 96.8 | 96.8 | 97.2 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3  | 97.3   | 97.3 |
| 400               | 93.5                       | 94.9 | 95.7 | 96.5 | 96.9 | 96.9 | 97.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4  | 97.4   | 97.4 |
| 300               | 93.5                       | 94.9 | 95.7 | 96.5 | 96.9 | 96.9 | 97.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4  | 97.4  | 97.4   | 97.4 |
| 200               | 93.5                       | 95.0 | 95.7 | 96.5 | 96.9 | 96.9 | 97.0 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6   | 97.6 |
| 100               | 93.5                       | 95.0 | 95.7 | 96.5 | 96.9 | 96.9 | 97.0 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6   | 97.6 |
| 0                 | 93.5                       | 95.0 | 95.7 | 96.5 | 96.9 | 96.9 | 97.0 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6   | 97.6 |

TOTAL NUMBER OF OBSERVATIONS 2095

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLLEGE SPRING COLDPETERSON FLD  
STATION NAME

7-47,49-48  
YEARS

1947-1950  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1947-1950  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/16 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 61.3                       | 62.1 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2 | 62.2  | 62.2 | 62.2   | 62.2 | 62.2 |
| ≥ 20000           | 74.3                       | 75.2 | 75.3 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4  | 75.4 | 75.4   | 75.4 | 75.4 |
| ≥ 18000           | 75.1                       | 76.0 | 76.1 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2  | 76.2 | 76.2   | 76.2 | 76.2 |
| ≥ 16000           | 77.2                       | 77.8 | 77.9 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0  | 78.0 | 78.0   | 78.0 | 78.0 |
| ≥ 14000           | 79.9                       | 80.3 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8 | 80.8   | 80.8 | 80.8 |
| ≥ 12000           | 82.3                       | 83.1 | 83.3 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4 | 83.4  | 83.4 | 83.4   | 83.4 | 83.4 |
| ≥ 10000           | 83.8                       | 84.5 | 84.6 | 84.7 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8 | 84.8  | 84.8 | 84.8   | 84.8 | 84.8 |
| ≥ 9000            | 84.1                       | 84.7 | 84.9 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0  | 85.0 | 85.0   | 85.0 | 85.0 |
| ≥ 8000            | 84.9                       | 85.5 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8   | 85.8 | 85.8 |
| ≥ 7000            | 85.0                       | 86.3 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6 | 86.6   | 86.6 | 86.6 |
| ≥ 6000            | 86.1                       | 86.7 | 86.9 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0  | 87.0 | 87.0   | 87.0 | 87.0 |
| ≥ 5000            | 87.0                       | 87.6 | 87.8 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0   | 88.0 | 88.0 |
| ≥ 4500            | 87.8                       | 88.3 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8   | 88.8 | 88.8 |
| ≥ 4000            | 88.7                       | 89.4 | 89.6 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.7   | 89.7 | 89.7 |
| ≥ 3500            | 89.3                       | 90.3 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7   | 90.7 | 90.7 |
| ≥ 3000            | 90.3                       | 91.3 | 91.6 | 91.7 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8   | 91.8 | 91.8 |
| ≥ 2500            | 91.0                       | 92.2 | 92.5 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8   | 92.8 | 92.8 |
| ≥ 2000            | 91.5                       | 92.8 | 93.3 | 93.6 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8   | 93.8 | 93.8 |
| ≥ 1800            | 91.8                       | 93.0 | 93.5 | 93.8 | 93.9 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0 | 94.0   | 94.0 | 94.0 |
| ≥ 1500            | 92.1                       | 93.4 | 93.8 | 94.1 | 94.3 | 94.3 | 94.5 | 94.5 | 94.5 | 94.5 | 94.6 | 94.6  | 94.6 | 94.6   | 94.6 | 94.6 |
| ≥ 1200            | 92.3                       | 93.6 | 94.2 | 94.5 | 94.8 | 94.8 | 95.1 | 95.2 | 95.2 | 95.3 | 95.4 | 95.4  | 95.4 | 95.4   | 95.4 | 95.4 |
| ≥ 1000            | 92.7                       | 94.3 | 94.8 | 95.1 | 95.4 | 95.4 | 95.7 | 95.9 | 95.9 | 96.1 | 96.2 | 96.2  | 96.2 | 96.2   | 96.2 | 96.2 |
| ≥ 900             | 92.8                       | 94.5 | 95.0 | 95.3 | 95.6 | 95.6 | 95.9 | 96.0 | 96.0 | 96.3 | 96.5 | 96.5  | 96.5 | 96.5   | 96.5 | 96.5 |
| ≥ 800             | 92.9                       | 94.9 | 95.5 | 95.8 | 96.0 | 96.1 | 96.4 | 96.6 | 96.6 | 96.9 | 97.1 | 97.1  | 97.2 | 97.2   | 97.2 | 97.2 |
| ≥ 700             | 92.9                       | 95.0 | 95.5 | 95.9 | 96.1 | 96.2 | 96.5 | 96.7 | 96.7 | 97.0 | 97.2 | 97.2  | 97.3 | 97.3   | 97.3 | 97.3 |
| ≥ 600             | 93.0                       | 95.2 | 95.8 | 96.1 | 96.4 | 96.4 | 96.8 | 96.9 | 96.9 | 97.3 | 97.7 | 97.7  | 97.7 | 97.7   | 97.7 | 97.7 |
| ≥ 500             | 93.0                       | 95.3 | 95.8 | 96.2 | 96.4 | 96.5 | 96.8 | 97.0 | 97.0 | 97.4 | 97.7 | 97.7  | 97.8 | 97.8   | 97.8 | 97.8 |
| ≥ 400             | 93.1                       | 95.3 | 95.9 | 96.3 | 96.5 | 96.6 | 96.9 | 97.1 | 97.1 | 97.5 | 97.8 | 97.8  | 97.9 | 97.9   | 97.9 | 97.9 |
| ≥ 300             | 93.1                       | 95.4 | 96.0 | 96.4 | 96.7 | 96.8 | 97.1 | 97.3 | 97.3 | 97.8 | 98.0 | 98.0  | 98.3 | 98.3   | 98.3 | 98.3 |
| ≥ 200             | 93.1                       | 95.5 | 96.1 | 96.5 | 96.8 | 96.9 | 97.3 | 97.5 | 97.5 | 97.9 | 98.2 | 98.2  | 98.6 | 98.6   | 98.6 | 98.6 |
| ≥ 100             | 93.1                       | 95.5 | 96.1 | 96.5 | 96.8 | 96.9 | 97.3 | 97.5 | 97.5 | 98.0 | 98.3 | 98.3  | 98.7 | 98.7   | 98.7 | 98.7 |
| ≥ 0               | 93.1                       | 95.5 | 96.1 | 96.5 | 96.8 | 96.9 | 97.3 | 97.5 | 97.5 | 98.0 | 98.3 | 98.3  | 98.7 | 98.7   | 98.7 | 98.7 |

TOTAL NUMBER OF OBSERVATIONS 2097

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON, FC  
STATION NAME

42-47,49-50  
YEARS

11-2-21-0  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |        |      |
|-------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ 0  |
| NO CEILING        | 58.3                     | 78.9 | 68.9 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0  | 69.0 | 69.0   | 69.0 |
| ≥ 20000           | 77.0                     | 77.6 | 77.8 | 77.8 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9  | 77.9 | 77.9   | 77.9 |
| ≥ 18000           | 77.9                     | 76.0 | 78.6 | 78.7 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8  | 78.8 | 78.8   | 78.8 |
| ≥ 16000           | 77.9                     | 76.0 | 78.6 | 78.7 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8  | 78.8 | 78.8   | 78.8 |
| IV 14000          | 82.3                     | 83.0 | 83.0 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1  | 83.1 | 83.1   | 83.1 |
| IV 12000          | 84.1                     | 84.8 | 84.8 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9  | 84.9 | 84.9   | 84.9 |
| IV 10000          | 85.0                     | 85.8 | 85.8 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9   | 85.9 |
| IV 9000           | 85.4                     | 86.1 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2 | 86.2   | 86.2 |
| IV 8000           | 85.8                     | 86.3 | 86.3 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4  | 86.4 | 86.4   | 86.4 |
| IV 7000           | 85.9                     | 86.7 | 86.7 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8 | 86.8   | 86.8 |
| IV 6000           | 86.0                     | 87.4 | 87.4 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5  | 87.5 | 87.5   | 87.5 |
| IV 5000           | 87.2                     | 88.0 | 88.0 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2   | 88.2 |
| IV 4500           | 87.7                     | 88.0 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8   | 88.8 |
| IV 4000           | 88.2                     | 89.2 | 89.3 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 | 89.5   | 89.5 |
| IV 3500           | 88.9                     | 90.0 | 90.1 | 90.3 | 90.4 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5  | 90.5 | 90.5   | 90.5 |
| IV 3000           | 89.4                     | 90.5 | 90.9 | 91.1 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.3   | 91.3 |
| IV 2500           | 89.7                     | 91.3 | 91.6 | 91.8 | 92.0 | 92.0 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1   | 92.1 |
| IV 2000           | 90.2                     | 92.1 | 92.5 | 92.7 | 92.9 | 92.9 | 93.1 | 93.1 | 93.1 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2   | 93.2 |
| IV 1800           | 90.3                     | 92.1 | 92.5 | 92.7 | 92.9 | 93.0 | 93.2 | 93.2 | 93.2 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3   | 93.3 |
| IV 1500           | 90.9                     | 92.9 | 93.3 | 93.5 | 93.7 | 93.8 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1   | 94.1 |
| IV 1200           | 91.3                     | 93.4 | 93.8 | 94.0 | 94.3 | 94.4 | 94.7 | 94.8 | 94.8 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9   | 94.9 |
| IV 1000           | 91.4                     | 93.3 | 93.9 | 94.2 | 94.5 | 94.6 | 94.9 | 95.0 | 95.0 | 95.2 | 95.3 | 95.3  | 95.3 | 95.3   | 95.3 |
| IV 900            | 91.5                     | 93.6 | 94.0 | 94.3 | 94.6 | 94.7 | 95.0 | 95.2 | 95.2 | 95.5 | 95.6 | 95.6  | 95.6 | 95.6   | 95.6 |
| IV 800            | 91.5                     | 93.6 | 94.0 | 94.4 | 94.7 | 94.8 | 95.3 | 95.5 | 95.5 | 95.8 | 96.0 | 96.0  | 96.0 | 96.0   | 96.0 |
| IV 700            | 91.5                     | 93.9 | 94.4 | 94.7 | 95.0 | 95.1 | 95.7 | 95.9 | 95.9 | 96.2 | 96.4 | 96.4  | 96.4 | 96.4   | 96.4 |
| IV 600            | 91.7                     | 94.2 | 94.8 | 94.9 | 95.3 | 95.4 | 95.9 | 96.1 | 96.1 | 96.5 | 96.7 | 96.7  | 96.7 | 96.7   | 96.7 |
| IV 500            | 91.8                     | 94.3 | 94.8 | 95.1 | 95.4 | 95.6 | 96.1 | 96.4 | 96.4 | 96.8 | 97.0 | 97.0  | 97.1 | 97.1   | 97.2 |
| IV 400            | 91.8                     | 94.4 | 94.9 | 95.2 | 95.6 | 95.8 | 96.4 | 96.7 | 96.7 | 97.0 | 97.4 | 97.4  | 97.5 | 97.5   | 97.6 |
| IV 300            | 91.8                     | 94.5 | 94.9 | 95.2 | 95.7 | 96.0 | 96.7 | 97.1 | 97.1 | 97.5 | 97.9 | 97.9  | 98.0 | 98.0   | 98.1 |
| IV 200            | 91.9                     | 94.6 | 95.0 | 95.4 | 95.9 | 96.1 | 96.9 | 97.2 | 97.2 | 97.7 | 98.1 | 98.1  | 98.3 | 98.3   | 98.7 |
| IV 100            | 91.9                     | 94.7 | 95.1 | 95.5 | 96.0 | 96.2 | 97.0 | 97.4 | 97.4 | 97.9 | 98.3 | 98.3  | 98.6 | 98.7   | 99.0 |
| IV 0              | 91.9                     | 94.7 | 95.1 | 95.5 | 96.0 | 96.2 | 97.0 | 97.4 | 97.4 | 97.9 | 98.3 | 98.3  | 98.6 | 98.8   | 99.2 |

TOTAL NUMBER OF OBSERVATIONS

2099

DATA PROCESSING DIVISION  
ETAC, 1955  
ASHEVILLE, N. C. 28671

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS COLORADO METEOR. ST.  
STATION NAME

72-77-49-58  
YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

24 HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |      |      |      |       |      |       |      |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|------|------|------|-------|------|-------|------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .5 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .15 | ≥ .1 |
| NO CEILING      | 59.7                     | 73.4 | 73.8 | 73.9 | 73.9 | 73.9  | 73.9 | 73.9  | 73.9 | 73.9 | 73.9 | 73.9  | 73.9 | 73.9  | 73.9 |
| ≥ 25000         | 73.4                     | 73.8 | 73.9 | 73.9 | 73.9 | 73.9  | 73.9 | 73.9  | 73.9 | 73.9 | 73.9 | 73.9  | 73.9 | 73.9  | 73.9 |
| N 18000         | 74.0                     | 74.7 | 75.0 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 | 75.1 | 75.1 | 75.1  | 75.1 | 75.1  | 75.1 |
| N 16000         | 74.7                     | 77.1 | 77.2 | 77.4 | 77.3 | 77.3  | 77.3 | 77.3  | 77.3 | 77.3 | 77.3 | 77.3  | 77.3 | 77.3  | 77.3 |
| N 14000         | 70.1                     | 70.5 | 70.5 | 70.6 | 70.7 | 70.7  | 70.7 | 70.7  | 70.7 | 70.7 | 70.7 | 70.7  | 70.7 | 70.7  | 70.7 |
| N 12000         | 62.7                     | 63.1 | 63.2 | 63.3 | 63.4 | 63.4  | 63.4 | 63.4  | 63.4 | 63.4 | 63.4 | 63.4  | 63.4 | 63.4  | 63.4 |
| N 10000         | 54.1                     | 54.3 | 54.6 | 54.7 | 54.7 | 54.7  | 54.7 | 54.7  | 54.7 | 54.7 | 54.7 | 54.7  | 54.7 | 54.7  | 54.7 |
| N 9000          | 54.9                     | 54.9 | 55.0 | 55.1 | 55.1 | 55.1  | 55.1 | 55.1  | 55.1 | 55.1 | 55.1 | 55.1  | 55.1 | 55.1  | 55.1 |
| N 8000          | 55.1                     | 55.3 | 55.6 | 55.7 | 55.8 | 55.8  | 55.8 | 55.8  | 55.8 | 55.8 | 55.8 | 55.8  | 55.8 | 55.8  | 55.8 |
| N 7000          | 55.7                     | 56.1 | 56.2 | 56.3 | 56.3 | 56.3  | 56.3 | 56.3  | 56.3 | 56.3 | 56.3 | 56.3  | 56.3 | 56.3  | 56.3 |
| N 6000          | 56.2                     | 56.8 | 56.9 | 57.0 | 57.0 | 57.0  | 57.0 | 57.0  | 57.0 | 57.0 | 57.0 | 57.0  | 57.0 | 57.0  | 57.0 |
| N 5000          | 57.1                     | 57.2 | 57.5 | 57.7 | 57.8 | 57.8  | 57.8 | 57.8  | 57.8 | 57.8 | 57.8 | 57.8  | 57.8 | 57.8  | 57.8 |
| N 4500          | 57.5                     | 58.0 | 58.1 | 58.2 | 58.3 | 58.3  | 58.3 | 58.3  | 58.3 | 58.3 | 58.3 | 58.3  | 58.3 | 58.3  | 58.3 |
| N 4000          | 58.1                     | 58.7 | 58.9 | 59.0 | 59.0 | 59.0  | 59.0 | 59.0  | 59.0 | 59.0 | 59.0 | 59.0  | 59.0 | 59.0  | 59.0 |
| N 3500          | 59.7                     | 59.3 | 59.5 | 59.7 | 59.7 | 59.7  | 59.7 | 59.7  | 59.7 | 59.7 | 59.7 | 59.7  | 59.7 | 59.7  | 59.7 |
| N 3000          | 59.5                     | 59.2 | 59.4 | 59.6 | 59.7 | 59.7  | 59.7 | 59.7  | 59.7 | 59.7 | 59.7 | 59.7  | 59.7 | 59.7  | 59.7 |
| N 2500          | 90.0                     | 90.9 | 91.1 | 91.3 | 91.4 | 91.4  | 91.4 | 91.4  | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4  | 91.4 |
| N 2000          | 90.9                     | 91.0 | 91.9 | 92.2 | 92.3 | 92.3  | 92.3 | 92.3  | 92.3 | 92.3 | 92.3 | 92.3  | 92.3 | 92.3  | 92.3 |
| N 1500          | 90.7                     | 91.4 | 92.1 | 92.4 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 | 92.5 | 92.5 | 92.5  | 92.5 | 92.5  | 92.5 |
| N 1200          | 91.1                     | 92.3 | 92.6 | 92.9 | 93.0 | 93.1  | 93.1 | 93.1  | 93.1 | 93.1 | 93.1 | 93.1  | 93.1 | 93.1  | 93.1 |
| N 1000          | 91.6                     | 92.7 | 93.0 | 93.3 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 | 93.5 | 93.5 | 93.5  | 93.5 | 93.5  | 93.5 |
| N 900           | 91.6                     | 93.1 | 93.4 | 93.8 | 94.0 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 |
| N 800           | 91.8                     | 93.3 | 93.7 | 94.0 | 94.3 | 94.3  | 94.3 | 94.3  | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3  | 94.3 |
| N 700           | 91.9                     | 93.5 | 93.9 | 94.3 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6 |
| N 600           | 92.0                     | 93.7 | 94.1 | 94.5 | 94.8 | 94.9  | 94.9 | 94.9  | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9  | 94.9 |
| N 500           | 92.1                     | 93.8 | 94.3 | 94.8 | 95.1 | 95.3  | 95.3 | 95.3  | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3  | 95.3 |
| N 400           | 92.1                     | 94.0 | 94.5 | 95.0 | 95.3 | 95.4  | 95.4 | 95.4  | 95.4 | 95.4 | 95.4 | 95.4  | 95.4 | 95.4  | 95.4 |
| N 300           | 92.2                     | 94.1 | 94.7 | 95.2 | 95.5 | 95.7  | 95.7 | 95.7  | 95.7 | 95.7 | 95.7 | 95.7  | 95.7 | 95.7  | 95.7 |
| N 200           | 92.2                     | 94.2 | 94.8 | 95.3 | 95.7 | 95.9  | 95.9 | 95.9  | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9 |
| N 100           | 92.3                     | 94.2 | 94.9 | 95.4 | 95.8 | 96.0  | 96.0 | 96.0  | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0  | 96.0 |
| N 0             | 92.3                     | 94.3 | 94.9 | 95.4 | 95.8 | 96.0  | 96.0 | 96.0  | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0  | 96.0 |

TOTAL NUMBER OF OBSERVATIONS 16738

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

STATION COLORADO SPRINGS CO:O-PETERSON ED 42-4149-06

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0000-0000  
HOURS (L.S.T.)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |        |      |      |
|-----------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|--------|------|------|
|                       | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 5/16 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 77.0                       | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0  | 68.0 | 68.0   | 68.0 | 68.0 |
| ≥ 18000               | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 16000               | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 14000               | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 12000               | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 10000               | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 8000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 7000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 6000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 5000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 4500                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 4000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 3500                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 3000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 2500                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 2000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 1800                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 1500                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 1200                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 1000                | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 900                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 800                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 700                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 600                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 500                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 400                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 300                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 200                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 100                 | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |
| ≥ 0                   | 77.0                       | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0  | 77.0 | 77.0   | 77.0 | 77.0 |

TOTAL NUMBER OF OBSERVATIONS 2109

5

DATA PROCESSING DIVISION  
ETAC, 0538  
ASHEVILLE, N. C. 28801

## CEILING VERSUS VISIBILITY

93017  
STATIONCOLUMBIA SPRINGS CO, O-PETERSO, FD  
STATION NAME-7-47, -9-16  
YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0538-0538  
HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 69.3                       | 49.0 | 69.7 | 69.7 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8  | 69.8 | 69.8  | 69.8 | 69.8 |
| ≥ 20000           | 77.4                       | 77.7 | 78.0 | 78.0 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1 | 78.1  | 78.1 | 78.1  | 78.1 | 78.1 |
| ≥ 18000           | 78.3                       | 78.0 | 78.8 | 78.9 | 78.9 | 78.9 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0  | 79.0 | 79.0  | 79.0 | 79.0 |
| ≥ 16000           | 80.8                       | 81.3 | 81.4 | 81.4 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5  | 81.5 | 81.5  | 81.5 | 81.5 |
| ≥ 14000           | 83.3                       | 83.0 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0  | 84.0 | 84.0 |
| ≥ 12000           | 85.8                       | 85.3 | 85.4 | 85.4 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  | 85.5 | 85.5  | 85.5 | 85.5 |
| ≥ 10000           | 88.3                       | 88.1 | 88.2 | 88.2 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3  | 88.3 | 88.3  | 88.3 | 88.3 |
| ≥ 8000            | 90.8                       | 90.4 | 90.5 | 90.5 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6  | 90.6 | 90.6  | 90.6 | 90.6 |
| ≥ 7000            | 93.3                       | 93.0 | 93.1 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2  | 93.2 | 93.2 |
| ≥ 6000            | 95.8                       | 95.4 | 95.5 | 95.5 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6  | 95.6 | 95.6  | 95.6 | 95.6 |
| ≥ 5000            | 98.3                       | 98.0 | 98.1 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2 | 98.2  | 98.2 | 98.2 |
| ≥ 4500            | 99.3                       | 99.0 | 99.1 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2 | 99.2  | 99.2 | 99.2 |
| ≥ 4000            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 3500            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 3000            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 2500            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 2000            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 1800            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 1500            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 1200            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 1000            | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 900             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 800             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 700             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 600             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 500             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 400             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 300             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 200             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 100             | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |
| ≥ 0               | 99.8                       | 99.4 | 99.5 | 99.5 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 | 99.6  | 99.6 | 99.6 |

TOTAL NUMBER OF OBSERVATIONS 2170

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

91017  
STATION

COLORADO SPRINGS COLO-PETERSON FO  
STATION NAME

42-47.49-66  
YEARS

12  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11-11-66  
NO. OF O.B.'S

| CEILING<br>FEET       | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                       | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING<br>≥ 20000 | 55.6                     | 55.8 | 55.8 | 55.8 | 55.8 | 55.7 | 55.7 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9  | 55.9 | 55.9  | 55.9 | 55.9 |
| ≥ 18000               | 73.9                     | 73.9 | 73.9 | 74.0 | 74.0 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1  | 74.1 | 74.1  | 74.1 | 74.1 |
| ≥ 16000               | 74.9                     | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9 | 74.9  | 74.9 | 74.9  | 74.9 | 74.9 |
| ≥ 14000               | 80.1                     | 80.4 | 80.5 | 80.6 | 80.6 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7  | 80.7 | 80.7  | 80.7 | 80.7 |
| ≥ 12000               | 83.7                     | 84.0 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1  | 84.1 | 84.1 |
| ≥ 10000               | 85.1                     | 85.4 | 85.6 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 | 85.8  | 85.8 | 85.8 |
| ≥ 9000                | 85.3                     | 85.6 | 85.8 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 85.9  | 85.9 | 85.9 |
| ≥ 8000                | 86.4                     | 86.7 | 86.9 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1  | 87.1 | 87.1 |
| ≥ 7000                | 87.1                     | 87.6 | 87.8 | 87.9 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0  | 88.0 | 88.0 |
| ≥ 6000                | 88.0                     | 88.2 | 88.5 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8  | 88.8 | 88.8 |
| ≥ 5000                | 88.3                     | 88.8 | 89.1 | 89.3 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  | 89.4 | 89.4 |
| ≥ 4500                | 88.5                     | 88.8 | 89.1 | 89.3 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  | 89.4 | 89.4 |
| ≥ 4000                | 89.1                     | 89.6 | 89.9 | 90.1 | 90.1 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2  | 90.2 | 90.2 |
| ≥ 3500                | 89.3                     | 89.8 | 90.1 | 90.3 | 90.3 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4  | 90.4 | 90.4  | 90.4 | 90.4 |
| ≥ 3000                | 90.0                     | 90.5 | 90.8 | 91.1 | 91.1 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2  | 91.2 | 91.2  | 91.2 | 91.2 |
| ≥ 2500                | 90.6                     | 91.0 | 91.4 | 91.7 | 91.7 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8  | 91.8 | 91.8 |
| ≥ 2000                | 91.1                     | 91.9 | 92.4 | 92.7 | 92.7 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8  | 92.8 | 92.8  | 92.8 | 92.8 |
| ≥ 1800                | 91.2                     | 92.1 | 92.6 | 93.0 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 | 93.4  | 93.4 | 93.4 |
| ≥ 1500                | 91.4                     | 92.3 | 92.7 | 93.3 | 93.5 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6  | 93.6 | 93.6 |
| ≥ 1200                | 91.5                     | 92.5 | 93.0 | 93.6 | 93.9 | 94.0 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1 |
| ≥ 1000                | 91.9                     | 92.9 | 93.4 | 94.0 | 94.2 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5 | 94.5  | 94.5 | 94.5 |
| ≥ 900                 | 92.1                     | 93.1 | 93.5 | 94.1 | 94.4 | 94.6 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7 | 94.7  | 94.7 | 94.7  | 94.7 | 94.7 |
| ≥ 800                 | 92.1                     | 93.1 | 93.6 | 94.2 | 94.4 | 94.7 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8  | 94.8 | 94.8  | 94.8 | 94.8 |
| ≥ 700                 | 92.3                     | 93.3 | 93.8 | 94.4 | 94.7 | 94.9 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  | 95.1 | 95.1 |
| ≥ 600                 | 92.3                     | 93.3 | 93.8 | 94.4 | 94.7 | 94.9 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  | 95.1 | 95.1 |
| ≥ 500                 | 92.5                     | 93.7 | 94.3 | 94.9 | 95.4 | 95.6 | 95.9 | 96.2 | 96.4 | 96.6 | 96.9 | 96.9  | 96.9 | 96.9  | 96.9 | 96.9 |
| ≥ 400                 | 92.4                     | 93.7 | 94.4 | 95.2 | 95.5 | 95.8 | 96.1 | 96.5 | 96.6 | 97.0 | 97.2 | 97.2  | 97.2 | 97.2  | 97.2 | 97.2 |
| ≥ 300                 | 92.4                     | 93.8 | 94.5 | 95.4 | 95.7 | 96.0 | 96.3 | 96.7 | 97.0 | 97.1 | 97.6 | 97.6  | 97.6 | 97.6  | 97.6 | 97.6 |
| ≥ 200                 | 92.5                     | 93.8 | 94.5 | 95.4 | 95.8 | 96.0 | 96.3 | 96.7 | 97.0 | 97.1 | 97.6 | 97.6  | 97.6 | 97.6  | 97.6 | 97.6 |
| ≥ 100                 | 92.5                     | 93.8 | 94.5 | 95.4 | 95.8 | 96.0 | 96.3 | 96.7 | 97.0 | 97.1 | 97.6 | 97.6  | 97.6 | 97.6  | 97.6 | 97.6 |
| ≥ 0                   | 92.4                     | 93.8 | 94.5 | 95.4 | 95.8 | 96.0 | 96.3 | 96.7 | 97.0 | 97.1 | 97.6 | 97.6  | 97.6 | 97.6  | 97.6 | 97.6 |

TOTAL NUMBER OF OBSERVATIONS

7170

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28501

# CEILING VERSUS VISIBILITY

93037  
STATION

2. ILLINOIS SPRINGS CILWFLY28501 FO  
STATION NAME

42-47,49-04  
YEARS

71.6  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-1100  
HOURS (LST)

| CEILING<br>(FEET)     | VISIBILITY (STATUTE MILES) |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|-----------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                       | ≥ 10                       | ≥ 6          | ≥ 5          | ≥ 4          | ≥ 3          | ≥ 2½         | ≥ 2          | ≥ 1½         | ≥ 1¼         | ≥ 1          | ≥ ¾          | ≥ 5/8        | ≥ ½          | ≥ 3/8        | ≥ ¼          | ≥ 0          |
| NO CEILING<br>≥ 23000 | 51.3<br>70.3               | 51.7<br>71.0 | 51.7<br>71.1 | 51.7<br>71.1 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 | 51.7<br>71.2 |
| N 18000<br>N 16000    | 72.7<br>73.3               | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 | 73.3<br>73.3 |
| N 14000<br>N 12000    | 80.1<br>80.1               | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 | 80.1<br>80.1 |
| N 10000<br>N 9000     | 85.7<br>86.3               | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 | 86.3<br>86.3 |
| N 8000<br>N 7000      | 87.7<br>87.7               | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 | 87.7<br>87.7 |
| N 6000<br>N 5000      | 88.2<br>88.5               | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 | 88.5<br>88.5 |
| N 4500<br>N 4000      | 89.1<br>89.6               | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 | 89.6<br>89.6 |
| N 3500<br>N 3000      | 90.0<br>90.4               | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 | 90.4<br>90.4 |
| N 2500<br>N 2000      | 90.9<br>91.3               | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 | 91.3<br>91.3 |
| N 1800<br>N 1500      | 91.7<br>91.7               | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 | 91.7<br>91.7 |
| N 1200<br>N 1000      | 92.0<br>92.2               | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 | 92.2<br>92.2 |
| N 900<br>N 800        | 92.2<br>92.3               | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 | 92.3<br>92.3 |
| N 700<br>N 600        | 92.3<br>92.5               | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 | 92.5<br>92.5 |
| N 500<br>N 400        | 92.5<br>92.7               | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 |
| N 300<br>N 200        | 92.7<br>92.7               | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 |
| N 100<br>N 0          | 92.7<br>92.7               | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 | 92.7<br>92.7 |

TOTAL NUMBER OF OBSERVATIONS 2169

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# CEILING VERSUS VISIBILITY

93037

COLDSPRING SPRINGS COLDSPRING PETE: 10

27-47-45-00

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12-0-10-00  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |        |       |        |        |       |        |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|--------|-------|--------|--------|-------|--------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ 0.75 | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.1 | ≥ 0.05 |
| NO CEILING      | 51.4                       | 51.0 | 51.7 | 51.7 | 51.7 | 51.7  | 51.7 | 51.7  | 51.7  | 51.7   | 51.7  | 51.7   | 51.7   | 51.7  | 51.7   |
| ≥ 20000         | 70.9                       | 71.2 | 71.4 | 71.4 | 71.4 | 71.4  | 71.4 | 71.4  | 71.4  | 71.4   | 71.4  | 71.4   | 71.4   | 71.4  | 71.4   |
| ≥ 18000         | 72.8                       | 73.1 | 73.3 | 73.3 | 73.3 | 73.3  | 73.3 | 73.3  | 73.3  | 73.3   | 73.3  | 73.3   | 73.3   | 73.3  | 73.3   |
| ≥ 16000         | 76.2                       | 76.5 | 76.7 | 76.7 | 76.7 | 76.7  | 76.7 | 76.7  | 76.7  | 76.7   | 76.7  | 76.7   | 76.7   | 76.7  | 76.7   |
| ≥ 14000         | 80.9                       | 80.9 | 80.9 | 80.9 | 80.9 | 80.9  | 80.9 | 80.9  | 80.9  | 80.9   | 80.9  | 80.9   | 80.9   | 80.9  | 80.9   |
| ≥ 12000         | 81.9                       | 82.2 | 82.4 | 82.4 | 82.4 | 82.4  | 82.4 | 82.4  | 82.4  | 82.4   | 82.4  | 82.4   | 82.4   | 82.4  | 82.4   |
| ≥ 10000         | 85.3                       | 85.8 | 86.0 | 86.0 | 86.0 | 86.0  | 86.0 | 86.0  | 86.0  | 86.0   | 86.0  | 86.0   | 86.0   | 86.0  | 86.0   |
| ≥ 9000          | 85.8                       | 86.2 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7  | 86.7   | 86.7  | 86.7   | 86.7   | 86.7  | 86.7   |
| ≥ 8000          | 86.7                       | 87.4 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6 | 87.6  | 87.6  | 87.6   | 87.6  | 87.6   | 87.6   | 87.6  | 87.6   |
| ≥ 7000          | 87.2                       | 88.2 | 88.4 | 88.4 | 88.5 | 88.5  | 88.5 | 88.5  | 88.5  | 88.5   | 88.5  | 88.5   | 88.5   | 88.5  | 88.5   |
| ≥ 6000          | 89.7                       | 89.7 | 89.7 | 89.7 | 89.8 | 89.8  | 89.8 | 89.8  | 89.8  | 89.8   | 89.8  | 89.8   | 89.8   | 89.8  | 89.8   |
| ≥ 5000          | 89.9                       | 90.3 | 90.6 | 90.6 | 90.7 | 90.7  | 90.7 | 90.7  | 90.7  | 90.7   | 90.7  | 90.7   | 90.7   | 90.7  | 90.7   |
| ≥ 4500          | 90.1                       | 90.8 | 91.1 | 91.1 | 91.3 | 91.3  | 91.3 | 91.3  | 91.3  | 91.3   | 91.3  | 91.3   | 91.3   | 91.3  | 91.3   |
| ≥ 4000          | 90.9                       | 91.0 | 92.0 | 92.1 | 92.2 | 92.2  | 92.2 | 92.2  | 92.2  | 92.2   | 92.2  | 92.2   | 92.2   | 92.2  | 92.2   |
| ≥ 3500          | 91.3                       | 92.1 | 92.5 | 92.5 | 92.6 | 92.6  | 92.6 | 92.6  | 92.6  | 92.6   | 92.6  | 92.6   | 92.6   | 92.6  | 92.6   |
| ≥ 3000          | 91.3                       | 92.6 | 93.0 | 93.1 | 93.2 | 93.2  | 93.2 | 93.2  | 93.2  | 93.2   | 93.2  | 93.2   | 93.2   | 93.2  | 93.2   |
| ≥ 2500          | 92.2                       | 93.3 | 93.6 | 93.8 | 94.0 | 94.0  | 94.0 | 94.0  | 94.0  | 94.0   | 94.0  | 94.0   | 94.0   | 94.0  | 94.0   |
| ≥ 2000          | 92.9                       | 94.1 | 94.5 | 94.7 | 95.0 | 95.0  | 95.1 | 95.1  | 95.1  | 95.1   | 95.1  | 95.1   | 95.1   | 95.1  | 95.1   |
| ≥ 1800          | 93.0                       | 94.3 | 94.7 | 94.9 | 95.1 | 95.1  | 95.3 | 95.3  | 95.4  | 95.5   | 95.5  | 95.5   | 95.5   | 95.5  | 95.5   |
| ≥ 1500          | 93.2                       | 94.5 | 95.0 | 95.2 | 95.5 | 95.5  | 95.7 | 95.7  | 95.7  | 95.8   | 95.8  | 95.8   | 95.8   | 95.8  | 95.8   |
| ≥ 1200          | 93.3                       | 94.7 | 95.2 | 95.5 | 95.7 | 95.8  | 96.0 | 96.0  | 96.1  | 96.2   | 96.2  | 96.2   | 96.2   | 96.2  | 96.2   |
| ≥ 1000          | 93.4                       | 94.8 | 95.4 | 95.7 | 96.2 | 96.3  | 96.5 | 96.5  | 96.7  | 96.9   | 96.9  | 96.9   | 96.9   | 96.9  | 96.9   |
| ≥ 900           | 93.5                       | 94.9 | 95.5 | 95.8 | 96.3 | 96.3  | 96.6 | 96.8  | 96.8  | 97.1   | 97.1  | 97.1   | 97.1   | 97.1  | 97.1   |
| ≥ 800           | 93.6                       | 95.1 | 95.6 | 96.1 | 96.6 | 96.7  | 97.1 | 97.2  | 97.3  | 97.6   | 97.6  | 97.6   | 97.6   | 97.6  | 97.6   |
| ≥ 700           | 93.8                       | 95.3 | 95.9 | 96.3 | 97.1 | 97.3  | 97.7 | 97.9  | 98.0  | 98.4   | 98.4  | 98.4   | 98.4   | 98.4  | 98.4   |
| ≥ 600           | 93.7                       | 95.3 | 95.9 | 96.3 | 97.3 | 97.3  | 97.9 | 98.2  | 98.2  | 98.7   | 98.7  | 98.7   | 98.7   | 98.7  | 98.7   |
| ≥ 500           | 93.9                       | 95.3 | 96.0 | 96.6 | 97.5 | 97.7  | 98.1 | 98.2  | 98.4  | 98.7   | 98.7  | 98.7   | 98.7   | 98.7  | 98.7   |
| ≥ 400           | 93.9                       | 95.5 | 96.1 | 96.9 | 97.8 | 98.0  | 98.4 | 98.6  | 98.7  | 99.3   | 99.3  | 99.3   | 99.3   | 99.3  | 99.3   |
| ≥ 300           | 93.9                       | 95.5 | 96.1 | 96.9 | 97.8 | 98.0  | 98.4 | 98.7  | 98.7  | 99.4   | 99.4  | 99.4   | 99.4   | 99.4  | 99.4   |
| ≥ 200           | 93.9                       | 95.5 | 96.1 | 96.9 | 97.8 | 98.0  | 98.4 | 98.7  | 98.7  | 99.4   | 99.4  | 99.4   | 99.4   | 99.4  | 99.4   |
| ≥ 100           | 93.9                       | 95.5 | 96.1 | 96.9 | 97.8 | 98.0  | 98.4 | 98.7  | 98.7  | 99.4   | 99.4  | 99.4   | 99.4   | 99.4  | 99.4   |
| ≥ 0             | 93.9                       | 95.5 | 96.1 | 96.9 | 97.8 | 98.0  | 98.4 | 98.7  | 98.7  | 99.4   | 99.4  | 99.4   | 99.4   | 99.4  | 99.4   |

TOTAL NUMBER OF OBSERVATIONS

2163

5  
6

DATE: 12 JESSING DIVISION  
ETAC, USAF  
AGVILLE, N. C. 21071

# CEILING VERSUS VISIBILITY

73017  
STATION

CLARKSON SPRINGS CELL-PETERSON F.  
STATION NAME

42-41.99-11-  
YEAR

715  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15-0-17-0  
HOURS PER DAY

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |
|-----------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
|                 | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4   | ≥ 3   | ≥ 2½  | ≥ 2   | ≥ 1½  | ≥ 1¼  | ≥ 1   | ≥ ¾   | ≥ ½   | ≥ ¼   | ≥ 1/10 | ≥ 1/20 | ≥ 0   |
| NO CEILING      | 52.3                       | 52.5  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7  | 52.7   | 52.7   | 52.7  |
| ≥ 18000         | 72.8                       | 73.6  | 73.4  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5   | 73.5   | 73.5  |
| ≥ 16000         | 75.8                       | 76.1  | 76.4  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5   | 76.5   | 76.5  |
| ≥ 14000         | 79.5                       | 79.9  | 80.1  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2  | 80.2   | 80.2   | 80.2  |
| ≥ 12000         | 82.9                       | 83.4  | 83.5  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6  | 83.6   | 83.6   | 83.6  |
| IV 10000        | 85.9                       | 86.1  | 86.3  | 86.4  | 86.5  | 86.5  | 86.5  | 86.5  | 86.5  | 86.5  | 86.5  | 86.5  | 86.5  | 86.5   | 86.5   | 86.5  |
| IV 9000         | 87.0                       | 87.3  | 87.7  | 87.8  | 87.9  | 87.9  | 87.9  | 87.9  | 87.9  | 87.9  | 87.9  | 87.9  | 87.9  | 87.9   | 87.9   | 87.9  |
| IV 8000         | 88.1                       | 88.7  | 89.4  | 89.6  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8   | 89.8   | 89.8  |
| IV 7000         | 89.1                       | 89.7  | 90.4  | 90.6  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8   | 90.8   | 90.8  |
| IV 6000         | 90.1                       | 90.7  | 91.4  | 91.6  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8   | 91.8   | 91.8  |
| IV 5000         | 91.1                       | 91.7  | 92.4  | 92.6  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8   | 92.8   | 92.8  |
| IV 4500         | 92.1                       | 92.7  | 93.4  | 93.6  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8   | 93.8   | 93.8  |
| IV 4000         | 93.1                       | 93.7  | 94.4  | 94.6  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8   | 94.8   | 94.8  |
| IV 3500         | 94.1                       | 94.7  | 95.4  | 95.6  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8   | 95.8   | 95.8  |
| IV 3000         | 95.1                       | 95.7  | 96.4  | 96.6  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8   | 96.8   | 96.8  |
| IV 2500         | 96.1                       | 96.7  | 97.4  | 97.6  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8   | 97.8   | 97.8  |
| IV 2000         | 97.1                       | 97.7  | 98.4  | 98.6  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8   | 98.8   | 98.8  |
| IV 1800         | 98.1                       | 98.7  | 99.4  | 99.6  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8   | 99.8   | 99.8  |
| IV 1500         | 99.1                       | 99.7  | 100.4 | 100.6 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8 | 100.8  | 100.8  | 100.8 |
| IV 1200         | 100.1                      | 100.7 | 101.4 | 101.6 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8 | 101.8  | 101.8  | 101.8 |
| IV 1000         | 101.1                      | 101.7 | 102.4 | 102.6 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8 | 102.8  | 102.8  | 102.8 |
| IV 900          | 102.1                      | 102.7 | 103.4 | 103.6 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8 | 103.8  | 103.8  | 103.8 |
| IV 800          | 103.1                      | 103.7 | 104.4 | 104.6 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8 | 104.8  | 104.8  | 104.8 |
| IV 700          | 104.1                      | 104.7 | 105.4 | 105.6 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8  | 105.8  | 105.8 |
| IV 600          | 105.1                      | 105.7 | 106.4 | 106.6 | 106.8 | 106.8 | 106.8 | 106.8 | 106.8 | 106.8 | 106.8 | 106.8 | 106.8 | 106.8  | 106.8  | 106.8 |
| IV 500          | 106.1                      | 106.7 | 107.4 | 107.6 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8 | 107.8  | 107.8  | 107.8 |
| IV 400          | 107.1                      | 107.7 | 108.4 | 108.6 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8 | 108.8  | 108.8  | 108.8 |
| IV 300          | 108.1                      | 108.7 | 109.4 | 109.6 | 109.8 | 109.8 | 109.8 | 109.8 | 109.8 | 109.8 | 109.8 | 109.8 | 109.8 | 109.8  | 109.8  | 109.8 |
| IV 200          | 109.1                      | 109.7 | 110.4 | 110.6 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8  | 110.8  | 110.8 |
| IV 100          | 110.1                      | 110.7 | 111.4 | 111.6 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8 | 111.8  | 111.8  | 111.8 |
| IV 0            | 111.1                      | 111.7 | 112.4 | 112.6 | 112.8 | 112.8 | 112.8 | 112.8 | 112.8 | 112.8 | 112.8 | 112.8 | 112.8 | 112.8  | 112.8  | 112.8 |

TOTAL NUMBER OF OBSERVATIONS 2170

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

53037

COLLEGE SPRINGS COLLEGE-PETERSON FD

42-47,49-50

STATION NAME

YEARS

110

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1 7-7, 12  
HOURS, U.S.A.

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |       |       |       |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 3/4 | ≥ 3/8 | ≥ 1/4 | ≥ 0  |
| NO CEILING      | 69.0                     | 76.1 | 76.9 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.3 | 77.3 | 77.3  | 77.3  | 77.3  | 77.3  | 77.3 |
| ≥ 20000         | 76.1                     | 76.6 | 76.9 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.3 | 77.3 | 77.3  | 77.3  | 77.3  | 77.3  | 77.3 |
| ≥ 18000         | 77.2                     | 77.4 | 78.0 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.4 | 78.4 | 78.4  | 78.4  | 78.4  | 78.4  | 78.4 |
| ≥ 16000         | 78.5                     | 79.2 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.5 | 79.7 | 79.7 | 79.7  | 79.7  | 79.7  | 79.7  | 79.7 |
| ≥ 14000         | 81.0                     | 81.1 | 81.5 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.2 | 82.2 | 82.2  | 82.2  | 82.2  | 82.2  | 82.2 |
| ≥ 12000         | 83.5                     | 84.0 | 84.3 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.7 | 84.7 | 84.7  | 84.7  | 84.7  | 84.7  | 84.7 |
| ≥ 10000         | 85.3                     | 86.1 | 86.2 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.7 | 86.7 | 86.7  | 86.7  | 86.7  | 86.7  | 86.7 |
| ≥ 9000          | 85.7                     | 86.5 | 86.6 | 86.8 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 87.1 | 87.1 | 87.1  | 87.1  | 87.1  | 87.1  | 87.1 |
| ≥ 8000          | 86.7                     | 86.8 | 87.0 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.4 | 87.4 | 87.4  | 87.4  | 87.4  | 87.4  | 87.4 |
| ≥ 7000          | 86.7                     | 87.6 | 87.7 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.2 | 88.2 | 88.2  | 88.2  | 88.2  | 88.2  | 88.2 |
| ≥ 6000          | 87.8                     | 88.7 | 88.8 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.3 | 89.3 | 89.3  | 89.3  | 89.3  | 89.3  | 89.3 |
| ≥ 5000          | 88.1                     | 89.0 | 89.1 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.6 | 89.6 | 89.6  | 89.6  | 89.6  | 89.6  | 89.6 |
| ≥ 4500          | 88.3                     | 89.3 | 89.4 | 89.6 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.9 | 89.9 | 89.9  | 89.9  | 89.9  | 89.9  | 89.9 |
| ≥ 4000          | 89.0                     | 90.0 | 90.2 | 90.5 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7  | 90.7  | 90.7  | 90.7  | 90.7 |
| ≥ 3500          | 89.7                     | 90.8 | 91.0 | 91.3 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.6 | 91.6 | 91.6  | 91.6  | 91.6  | 91.6  | 91.6 |
| ≥ 3000          | 90.5                     | 91.7 | 91.9 | 92.2 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.4 | 92.4 | 92.4  | 92.4  | 92.4  | 92.4  | 92.4 |
| ≥ 2500          | 91.2                     | 92.5 | 92.7 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.4 | 93.4 | 93.4  | 93.4  | 93.4  | 93.4  | 93.4 |
| ≥ 2000          | 91.8                     | 93.6 | 93.8 | 94.2 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.6 | 94.6 | 94.6  | 94.6  | 94.6  | 94.6  | 94.6 |
| ≥ 1800          | 91.8                     | 93.8 | 94.0 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.6 | 94.6 | 94.6  | 94.6  | 94.6  | 94.6  | 94.6 |
| ≥ 1500          | 92.2                     | 94.3 | 94.5 | 94.9 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.3 | 95.3 | 95.3  | 95.3  | 95.3  | 95.3  | 95.3 |
| ≥ 1200          | 92.8                     | 94.7 | 94.9 | 95.3 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.8 | 95.8 | 95.8  | 95.8  | 95.8  | 95.8  | 95.8 |
| ≥ 1000          | 92.5                     | 94.8 | 95.0 | 95.4 | 95.6 | 95.7 | 95.8 | 95.9 | 95.9 | 96.3 | 96.3 | 96.3  | 96.3  | 96.3  | 96.3  | 96.3 |
| ≥ 900           | 92.7                     | 95.0 | 95.3 | 95.7 | 95.9 | 95.9 | 96.1 | 96.2 | 96.3 | 96.6 | 96.6 | 96.6  | 96.6  | 96.6  | 96.6  | 96.6 |
| ≥ 800           | 92.9                     | 95.2 | 95.4 | 95.9 | 96.1 | 96.1 | 96.3 | 96.4 | 96.5 | 96.9 | 96.9 | 96.9  | 96.9  | 96.9  | 96.9  | 96.9 |
| ≥ 700           | 92.9                     | 95.3 | 95.5 | 95.9 | 96.1 | 96.2 | 96.3 | 96.4 | 96.5 | 96.9 | 96.9 | 96.9  | 96.9  | 96.9  | 96.9  | 96.9 |
| ≥ 600           | 92.9                     | 95.3 | 95.6 | 96.0 | 96.2 | 96.3 | 96.4 | 96.5 | 96.6 | 97.0 | 97.0 | 97.0  | 97.0  | 97.0  | 97.0  | 97.0 |
| ≥ 500           | 92.9                     | 95.6 | 95.9 | 96.3 | 96.5 | 96.6 | 96.7 | 96.8 | 96.9 | 97.1 | 97.1 | 97.1  | 97.1  | 97.1  | 97.1  | 97.1 |
| ≥ 400           | 93.1                     | 95.9 | 96.2 | 96.6 | 96.9 | 96.9 | 97.1 | 97.2 | 97.3 | 97.6 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6  | 97.6 |
| ≥ 300           | 93.1                     | 96.0 | 96.3 | 96.7 | 97.0 | 97.1 | 97.2 | 97.3 | 97.4 | 97.8 | 97.8 | 97.8  | 97.8  | 97.8  | 97.8  | 97.8 |
| ≥ 200           | 93.3                     | 96.2 | 96.6 | 97.1 | 97.3 | 97.4 | 97.6 | 97.7 | 97.8 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1  | 98.1  | 98.1 |
| ≥ 100           | 93.3                     | 96.2 | 96.6 | 97.1 | 97.3 | 97.4 | 97.6 | 97.7 | 97.8 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1  | 98.1  | 98.1 |
| ≥ 0             | 93.3                     | 96.2 | 96.6 | 97.1 | 97.3 | 97.4 | 97.6 | 97.7 | 97.8 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1  | 98.1  | 98.1 |

TOTAL NUMBER OF OBSERVATIONS

2170

DATA PROCESSING DIVISION  
ETAC, DAF  
ADHÉVILLE, N. C. 28511

# CEILING VERSUS VISIBILITY

93037  
STATION

COLORADO SPRINGS (OLD-PETERSON) 12  
STATION NAME

42-47.49-46  
YEARS

11  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11.0-2.00  
HOURS (L.S.T.)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |        |       |        |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|--------|-------|--------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ 7/16 | ≥ 1/2 | ≥ 3/16 | ≥ 0  |
| NO CEILING        | 64.9                       | 67.2 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3  | 67.3   | 67.3  | 67.3   | 67.3 |
| ≥ 20000           | 75.7                       | 77.4 | 77.5 | 77.6 | 77.6 | 77.6 | 77.7 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8  | 77.8   | 77.8  | 77.8   | 77.8 |
| ≥ 18000           | 77.4                       | 78.1 | 78.2 | 78.3 | 78.3 | 78.3 | 78.3 | 78.4 | 78.4 | 78.4 | 78.4 | 78.4  | 78.4   | 78.4  | 78.4   | 78.4 |
| ≥ 16000           | 78.1                       | 78.6 | 78.9 | 79.2 | 79.5 | 79.6 | 79.7 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8  | 79.8   | 79.8  | 79.8   | 79.8 |
| ≥ 14000           | 79.7                       | 81.3 | 81.7 | 81.8 | 81.8 | 81.8 | 81.9 | 82.0 | 82.0 | 82.1 | 82.1 | 82.1  | 82.1   | 82.1  | 82.1   | 82.1 |
| ≥ 12000           | 83.3                       | 84.1 | 84.2 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3  | 84.3   | 84.3  | 84.3   | 84.3 |
| ≥ 10000           | 84.3                       | 85.5 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8   | 85.8  | 85.8   | 85.8 |
| ≥ 9000            | 85.1                       | 85.9 | 86.0 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2   | 86.2  | 86.2   | 86.2 |
| ≥ 8000            | 85.3                       | 86.2 | 86.4 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5  | 86.5   | 86.5  | 86.5   | 86.5 |
| ≥ 7000            | 85.9                       | 86.8 | 86.9 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0  | 87.0   | 87.0  | 87.0   | 87.0 |
| ≥ 6000            | 86.4                       | 87.3 | 87.4 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5 | 87.5  | 87.5   | 87.5  | 87.5   | 87.5 |
| ≥ 5000            | 87.0                       | 88.0 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2   | 88.2  | 88.2   | 88.2 |
| ≥ 4500            | 87.4                       | 88.3 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7  | 88.7   | 88.7  | 88.7   | 88.7 |
| ≥ 4000            | 87.7                       | 88.7 | 88.9 | 89.0 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1  | 89.1   | 89.1  | 89.1   | 89.1 |
| ≥ 3500            | 88.4                       | 89.0 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4   | 89.4  | 89.4   | 89.4 |
| ≥ 3000            | 89.0                       | 90.0 | 90.9 | 91.1 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2  | 91.2   | 91.2  | 91.2   | 91.2 |
| ≥ 2500            | 90.1                       | 91.3 | 91.6 | 91.7 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8   | 91.8  | 91.8   | 91.8 |
| ≥ 2000            | 90.5                       | 92.0 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5  | 92.5   | 92.5  | 92.5   | 92.5 |
| ≥ 1800            | 90.6                       | 92.3 | 92.6 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  | 92.9   | 92.9  | 92.9   | 92.9 |
| ≥ 1500            | 91.0                       | 92.7 | 93.2 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5  | 93.5   | 93.5  | 93.5   | 93.5 |
| ≥ 1200            | 91.1                       | 92.7 | 93.4 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8   | 93.8  | 93.8   | 93.8 |
| ≥ 1000            | 91.3                       | 93.2 | 93.6 | 93.9 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  | 94.0   | 94.0  | 94.0   | 94.0 |
| ≥ 900             | 91.3                       | 93.4 | 93.9 | 94.1 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3   | 94.3  | 94.3   | 94.3 |
| ≥ 800             | 91.2                       | 93.5 | 94.0 | 94.3 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4  | 94.4   | 94.4  | 94.4   | 94.4 |
| ≥ 700             | 91.3                       | 93.6 | 94.1 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5  | 94.5   | 94.5  | 94.5   | 94.5 |
| ≥ 600             | 91.6                       | 93.7 | 94.2 | 94.5 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6   | 94.6  | 94.6   | 94.6 |
| ≥ 500             | 91.8                       | 94.0 | 94.5 | 94.7 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9   | 94.9  | 94.9   | 94.9 |
| ≥ 400             | 92.0                       | 94.2 | 94.8 | 95.1 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3   | 95.3  | 95.3   | 95.3 |
| ≥ 300             | 92.1                       | 94.4 | 95.0 | 95.4 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6  | 95.6   | 95.6  | 95.6   | 95.6 |
| ≥ 200             | 92.1                       | 94.4 | 95.0 | 95.5 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8   | 95.8  | 95.8   | 95.8 |
| ≥ 100             | 92.1                       | 94.4 | 95.0 | 95.5 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8   | 95.8  | 95.8   | 95.8 |
| ≥ 0               | 92.1                       | 94.4 | 95.0 | 95.5 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8  | 95.8   | 95.8  | 95.8   | 95.8 |

TOTAL NUMBER OF OBSERVATIONS 2165

USAF ETAC FORM

4-5 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

93047  
STATION

COLUMBIAN SPRINGS COLDWATERBURY RD  
STATION NAME

12-47-49-51  
YEARS

12  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

511  
HOURS (EST)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ ¼  | ≥ 0  |
| NO CEILING        | 54.7                       | 40.1 | 60.2 | 40.2 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3  | 60.3 | 60.3  | 60.3 | 60.3 |
| ≥ 20000           | 74.3                       | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3 | 74.3  | 74.3 | 74.3  | 74.3 | 74.3 |
| ≥ 18000           | 75.1                       | 75.8 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1  | 76.1 | 76.1  | 76.1 | 76.1 |
| ≥ 16000           | 77.7                       | 78.2 | 78.3 | 78.4 | 78.4 | 78.4 | 78.4 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5  | 78.5 | 78.5  | 78.5 | 78.5 |
| ≥ 14000           | 80.7                       | 81.4 | 81.5 | 81.6 | 81.6 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7 | 81.7  | 81.7 | 81.7 |
| ≥ 12000           | 83.3                       | 84.4 | 84.4 | 84.5 | 84.5 | 84.5 | 84.5 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6  | 84.6 | 84.6 |
| ≥ 10000           | 85.3                       | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  | 86.7 | 86.7 |
| ≥ 9000            | 85.7                       | 86.3 | 86.4 | 86.5 | 86.5 | 86.5 | 86.5 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  | 86.6 | 86.6  | 86.6 | 86.6 |
| ≥ 8000            | 86.4                       | 87.0 | 87.1 | 87.2 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.4 | 87.4 | 87.4  | 87.4 | 87.4  | 87.4 | 87.4 |
| ≥ 7000            | 87.1                       | 87.7 | 87.8 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.1 | 88.1 | 88.1  | 88.1 | 88.1  | 88.1 | 88.1 |
| ≥ 6000            | 88.1                       | 88.5 | 88.6 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.8 | 88.8 | 88.8  | 88.8 | 88.8  | 88.8 | 88.8 |
| ≥ 5000            | 88.3                       | 88.9 | 89.1 | 89.2 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  | 89.4 | 89.4 |
| ≥ 4500            | 88.7                       | 89.4 | 89.5 | 89.7 | 89.7 | 89.8 | 89.8 | 89.8 | 89.8 | 89.9 | 89.9 | 89.9  | 89.9 | 89.9  | 89.9 | 89.9 |
| ≥ 4000            | 89.3                       | 90.1 | 90.3 | 90.4 | 90.5 | 90.5 | 90.5 | 90.6 | 90.6 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7  | 90.7 | 90.7 |
| ≥ 3500            | 90.7                       | 90.9 | 90.9 | 91.0 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1 | 91.2 | 91.2 | 91.2  | 91.2 | 91.2  | 91.2 | 91.2 |
| ≥ 3000            | 90.9                       | 91.3 | 91.3 | 91.7 | 91.8 | 91.9 | 91.9 | 92.0 | 92.0 | 92.0 | 92.1 | 92.1  | 92.1 | 92.1  | 92.1 | 92.1 |
| ≥ 2500            | 90.9                       | 91.9 | 92.1 | 92.4 | 92.5 | 92.6 | 92.6 | 92.7 | 92.7 | 92.7 | 92.8 | 92.8  | 92.8 | 92.8  | 92.8 | 92.8 |
| ≥ 2000            | 91.4                       | 92.0 | 92.2 | 93.2 | 93.3 | 93.4 | 93.4 | 93.5 | 93.5 | 93.6 | 93.6 | 93.6  | 93.6 | 93.6  | 93.6 | 93.6 |
| ≥ 1800            | 91.6                       | 92.0 | 93.1 | 93.5 | 93.6 | 93.7 | 93.8 | 93.9 | 93.9 | 94.0 | 94.1 | 94.1  | 94.1 | 94.1  | 94.1 | 94.1 |
| ≥ 1500            | 91.9                       | 93.2 | 93.5 | 93.9 | 94.1 | 94.1 | 94.4 | 94.5 | 94.5 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6 | 94.6 |
| ≥ 1200            | 92.1                       | 93.5 | 93.8 | 94.3 | 94.5 | 94.6 | 94.8 | 95.0 | 95.0 | 95.1 | 95.2 | 95.2  | 95.2 | 95.2  | 95.2 | 95.2 |
| ≥ 1000            | 92.2                       | 93.7 | 94.1 | 94.5 | 94.8 | 94.9 | 95.2 | 95.4 | 95.4 | 95.6 | 95.7 | 95.7  | 95.8 | 95.8  | 95.8 | 95.8 |
| ≥ 900             | 92.3                       | 93.8 | 94.2 | 94.8 | 94.9 | 95.0 | 95.3 | 95.6 | 95.6 | 95.8 | 95.9 | 95.9  | 96.0 | 96.0  | 96.0 | 96.0 |
| ≥ 800             | 92.4                       | 94.0 | 94.3 | 94.8 | 95.1 | 95.2 | 95.6 | 95.8 | 95.9 | 96.2 | 96.3 | 96.3  | 96.4 | 96.4  | 96.4 | 96.4 |
| ≥ 700             | 92.5                       | 94.1 | 94.5 | 95.0 | 95.3 | 95.5 | 95.8 | 96.1 | 96.2 | 96.5 | 96.7 | 96.7  | 96.8 | 96.8  | 96.8 | 96.8 |
| ≥ 600             | 92.5                       | 94.3 | 94.7 | 95.2 | 95.5 | 95.7 | 96.1 | 96.4 | 96.4 | 96.8 | 97.0 | 97.1  | 97.1 | 97.2  | 97.2 | 97.2 |
| ≥ 500             | 92.7                       | 94.4 | 94.9 | 95.4 | 95.8 | 96.0 | 96.4 | 96.8 | 96.8 | 97.3 | 97.5 | 97.5  | 97.6 | 97.6  | 97.7 | 97.7 |
| ≥ 400             | 92.7                       | 94.6 | 95.1 | 95.7 | 96.2 | 96.3 | 96.5 | 97.2 | 97.2 | 97.7 | 98.0 | 98.0  | 98.1 | 98.1  | 98.1 | 98.1 |
| ≥ 300             | 92.8                       | 94.7 | 95.2 | 95.7 | 96.4 | 96.5 | 97.0 | 97.5 | 97.5 | 98.1 | 98.4 | 98.4  | 98.5 | 98.5  | 98.5 | 98.5 |
| ≥ 200             | 92.8                       | 94.7 | 95.3 | 96.0 | 96.5 | 96.6 | 97.1 | 97.6 | 97.7 | 98.3 | 98.7 | 98.7  | 98.8 | 98.8  | 98.8 | 98.8 |
| ≥ 100             | 92.8                       | 94.8 | 95.3 | 96.0 | 96.5 | 96.7 | 97.2 | 97.6 | 97.7 | 98.3 | 98.7 | 98.7  | 98.8 | 98.8  | 98.8 | 98.8 |
| ≥ 0               | 92.8                       | 94.8 | 95.3 | 96.0 | 96.5 | 96.7 | 97.7 | 97.6 | 97.7 | 98.3 | 98.7 | 98.8  | 98.8 | 98.8  | 98.8 | 98.8 |

TOTAL NUMBER OF OBSERVATIONS 17346

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# CEILING VERSUS VISIBILITY

STATION 93057

STATION NAME COLUMBIA SPRINGS (L-1)-PETEX, N. C.

YEARS 1965

MONTH 11

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |       |      |       |       |      |
|-------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|-------|------|
|                   | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ 5/8 | ≥ ½  | ≥ 3/8 | ≥ 1/4 | ≥ 0  |
| NO CEILING        | 55.7                     | 56.4 | 56.5 | 56.5 | 56.6 | 56.5 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6  | 56.6 | 56.6  | 56.6  | 56.6 |
| ≥ 20000           | 57.5                     | 58.1 | 58.2 | 58.2 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3  | 58.3 | 58.3  | 58.3  | 58.3 |
| ≥ 18000           | 58.6                     | 59.3 | 59.0 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1  | 59.1 | 59.1  | 59.1  | 59.1 |
| ≥ 16000           | 59.3                     | 60.7 | 60.8 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9  | 60.9 | 60.9  | 60.9  | 60.9 |
| ≥ 14000           | 73.3                     | 73.7 | 73.8 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9 | 73.9  | 73.9 | 73.9  | 73.9  | 73.9 |
| ≥ 12000           | 75.2                     | 75.6 | 75.6 | 75.7 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8  | 75.8 | 75.8  | 75.8  | 75.8 |
| ≥ 10000           | 77.3                     | 77.7 | 77.7 | 77.7 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8  | 77.8 | 77.8  | 77.8  | 77.8 |
| ≥ 9000            | 79.1                     | 79.6 | 79.7 | 79.7 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8  | 79.8 | 79.8  | 79.8  | 79.8 |
| ≥ 8000            | 81.9                     | 81.9 | 81.9 | 82.0 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1  | 82.1 | 82.1  | 82.1  | 82.1 |
| ≥ 7000            | 83.0                     | 83.4 | 83.5 | 83.6 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7  | 83.7 | 83.7  | 83.7  | 83.7 |
| ≥ 6000            | 84.3                     | 84.6 | 84.6 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7 | 84.7  | 84.7 | 84.7  | 84.7  | 84.7 |
| ≥ 5000            | 85.9                     | 86.2 | 86.2 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3  | 86.3  | 86.3 |
| ≥ 4500            | 87.4                     | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4 | 87.4  | 87.4 | 87.4  | 87.4  | 87.4 |
| ≥ 4000            | 88.0                     | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0  | 88.0  | 88.0 |
| ≥ 3500            | 89.1                     | 89.0 | 89.0 | 89.1 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2  | 89.2 | 89.2  | 89.2  | 89.2 |
| ≥ 3000            | 89.7                     | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.7  | 89.7  | 89.7 |
| ≥ 2500            | 90.0                     | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0  | 90.0 | 90.0  | 90.0  | 90.0 |
| ≥ 2000            | 90.8                     | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 90.8  | 90.8  | 90.8 |
| ≥ 1800            | 91.6                     | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6  | 91.6 | 91.6  | 91.6  | 91.6 |
| ≥ 1500            | 92.1                     | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1  | 92.1 | 92.1  | 92.1  | 92.1 |
| ≥ 1200            | 92.7                     | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7  | 92.7  | 92.7 |
| ≥ 1000            | 93.0                     | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0  | 93.0 | 93.0  | 93.0  | 93.0 |
| ≥ 900             | 93.3                     | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3  | 93.3 | 93.3  | 93.3  | 93.3 |
| ≥ 800             | 93.9                     | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9  | 93.9 | 93.9  | 93.9  | 93.9 |
| ≥ 700             | 94.6                     | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6  | 94.6 | 94.6  | 94.6  | 94.6 |
| ≥ 600             | 94.9                     | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 94.9  | 94.9  | 94.9 |
| ≥ 500             | 95.1                     | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  | 95.1  | 95.1 |
| ≥ 400             | 95.3                     | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3  | 95.3 | 95.3  | 95.3  | 95.3 |
| ≥ 300             | 95.5                     | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5  | 95.5 | 95.5  | 95.5  | 95.5 |
| ≥ 200             | 95.7                     | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7  | 95.7 | 95.7  | 95.7  | 95.7 |
| ≥ 100             | 95.9                     | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 | 95.9  | 95.9 | 95.9  | 95.9  | 95.9 |
| 0                 | 96.2                     | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2  | 96.2 | 96.2  | 96.2  | 96.2 |

TOTAL NUMBER OF OBSERVATIONS 200597

## PART D

## SKY COVER

This summary is prepared from hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

| <u>OKTAS</u>    | <u>TENTHS</u> |
|-----------------|---------------|
| 0               | 0             |
| 1               | 1             |
| 2               | 3             |
| 3               | 4             |
| 4               | 5             |
| 5               | 6             |
| 6               | 8             |
| 7               | 9             |
| 8 (or obscured) | 10            |

## SKY COVER

MONTH

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |       |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------|-------------------------|-------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |                                |                         | 10    |
| JUL    | 00-02             | 51.1  | 4.5 | 3.7 | 4.0 | 3.5 | 1.5 | 3.3 | 2.9 | 3.5 | 2.6 | 13.6                           | 3.3                     | 1657  |
|        | 03-05             | 51.5  | 3.9 | 4.1 | 3.5 | 3.3 | 2.5 | 3.3 | 3.8 | 3.1 | 2.3 | 18.6                           | 3.3                     | 1871  |
|        | 06-08             | 30.5  | 5.3 | 5.0 | 3.8 | 3.2 | 2.7 | 3.0 | 5.4 | 5.0 | 5.7 | 23.5                           | 4.4                     | 1671  |
|        | 09-11             | 32.3  | 6.2 | 4.1 | 3.3 | 2.8 | 2.5 | 2.9 | 5.3 | 6.0 | 8.1 | 26.3                           | 4.9                     | 1990  |
|        | 12-14             | 30.2  | 6.3 | 5.8 | 3.7 | 3.5 | 2.6 | 5.1 | 5.0 | 6.4 | 7.3 | 24.1                           | 4.8                     | 1891  |
|        | 15-17             | 29.8  | 6.7 | 5.5 | 4.3 | 3.5 | 2.9 | 4.5 | 4.0 | 5.0 | 7.5 | 24.3                           | 4.8                     | 1891  |
|        | 18-20             | 39.3  | 5.4 | 6.3 | 4.6 | 3.8 | 2.5 | 4.2 | 4.1 | 4.4 | 3.3 | 22.0                           | 4.0                     | 1890  |
|        | 21-23             | 46.7  | 3.9 | 5.2 | 4.7 | 2.9 | 2.3 | 4.2 | 3.4 | 4.2 | 2.4 | 20.1                           | 3.6                     | 1891  |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
| TOTALS |                   | 39.7  | 5.3 | 5.0 | 4.0 | 3.4 | 2.5 | 3.0 | 4.2 | 4.9 | 4.9 | 22.2                           | 4.1                     | 15124 |

**5**



●

1

## SKY COVER

PERIOD

MONTH

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     |      |     | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|--------------------------------|-------------------------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   |     |                                |                         |
| MAR    | 00-02             | 43.9  | 4.3 | 4.4 | 3.3 | 2.5 | 1.9 | 2.4 | 3.5 | 3.1 | 7.2 | 28.0 | 4.1 | 157                            |                         |
|        | 03-05             | 41.0  | 5.3 | 4.3 | 3.0 | 2.9 | 1.9 | 3.1 | 3.5 | 3.1 | 2.0 | 28.6 | 4.2 | 1875                           |                         |
|        | 06-08             | 30.8  | 6.2 | 5.1 | 3.6 | 2.4 | 2.3 | 3.9 | 4.2 | 9.0 | 5.1 | 31.3 | 5.0 | 1591                           |                         |
|        | 09-11             | 26.4  | 6.2 | 5.1 | 4.1 | 3.3 | 3.1 | 4.5 | 4.8 | 5.9 | 7.6 | 27.8 | 5.2 | 1891                           |                         |
|        | 12-14             | 21.3  | 4.9 | 4.3 | 4.8 | 3.9 | 3.6 | 4.8 | 4.9 | 7.1 | 7.5 | 32.2 | 5.1 | 1591                           |                         |
|        | 15-17             | 18.0  | 6.5 | 4.1 | 4.1 | 3.3 | 3.4 | 4.7 | 6.0 | 7.2 | 8.2 | 34.5 | 6.0 | 1891                           |                         |
|        | 18-20             | 27.6  | 5.5 | 5.2 | 5.1 | 4.5 | 3.0 | 5.0 | 4.7 | 5.2 | 4.6 | 29.7 | 5.1 | 1870                           |                         |
|        | 21-23             | 39.7  | 5.2 | 4.8 | 4.4 | 3.4 | 2.1 | 3.5 | 3.7 | 7.7 | 3.0 | 27.4 | 4.2 | 1869                           |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |     |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |     |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |     |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |     |                                |                         |
| TOTALS |                   | 31.2  | 5.5 | 4.7 | 4.1 | 2.3 | 2.6 | 4.1 | 4.6 | 5.1 | 5.1 | 29.9 | 4.9 | 15045                          |                         |

## SKY COVER

MONIN

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |       |
|--------|----------------|---|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------------------------|-------------------------|-------|
|        |                | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9    |                                |                         | 10    |
| APR    | 00-27          | 44.4  | 3.9 | 4.1 | 3.7 | 2.9 | 1.7 | 3.7 | 3.3 | 2.9 | 2.7  | 26.8                           | 4.2                     | 1740  |
|        | 03-05          | 18.7  | 6.3 | 4.9 | 4.7 | 2.7 | 2.2 | 2.8 | 3.0 | 3.4 | 4.1  | 27.0                           | 4.3                     | 1740  |
|        | 06-08          | 30.5  | 5.4 | 4.4 | 3.5 | 2.8 | 2.7 | 4.0 | 4.4 | 6.1 | 5.7  | 30.5                           | 5.1                     | 1740  |
|        | 09-11          | 24.0  | 6.6 | 4.6 | 4.2 | 3.7 | 4.1 | 4.7 | 6.0 | 6.1 | 7.4  | 28.6                           | 5.4                     | 1740  |
|        | 12-14          | 13.8  | 6.5 | 4.5 | 4.9 | 4.1 | 4.0 | 5.5 | 6.5 | 7.0 | 9.9  | 32.5                           | 5.2                     | 1740  |
|        | 15-17          | 12.2  | 4.9 | 3.6 | 4.3 | 3.6 | 3.5 | 4.1 | 7.0 | 8.0 | 11.7 | 36.6                           | 6.7                     | 1740  |
|        | 18-20          | 22.5  | 5.1 | 4.5 | 4.4 | 4.0 | 2.7 | 5.2 | 3.1 | 7.2 | 5.9  | 33.3                           | 5.7                     | 1740  |
|        | 21-23          | 39.4  | 4.7 | 5.4 | 3.7 | 3.3 | 2.5 | 3.3 | 3.3 | 4.6 | 2.2  | 27.5                           | 4.3                     | 1740  |
|        |                |   |     |     |     |     |     |     |     |     |      |                                |                         |       |
|        |                |   |     |     |     |     |     |     |     |     |      |                                |                         |       |
|        |                |   |     |     |     |     |     |     |     |     |      |                                |                         |       |
| TOTALS |                | 28.2  | 5.4 | 4.5 | 4.2 | 3.4 | 2.9 | 4.2 | 4.8 | 5.9 | 6.2  | 30.3                           | 5.2                     | 13920 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

93037  
STATION

COLORADO SPRINGS COLG-PETERSON FLD  
STATION NAME

40-47,47-01

PERIOD

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |      |      |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|------|------|------|--------------------------------|-------------------------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    | 10   |                                |                         |
| MAY    | 00-02             | 41.4  | 4.6 | 4.2 | 3.9 | 3.1 | 1.4 | 3.9 | 7.6 | 3.3  | 3.7  | 27.7 | 4.2                            | 1710                    |
|        | 03-05             | 35.6  | 6.4 | 4.6 | 3.7 | 3.1 | 2.3 | 4.0 | 3.8 | 4.2  | 3.0  | 28.6 | 4.5                            | 1796                    |
|        | 06-08             | 31.6  | 5.2 | 4.3 | 4.1 | 3.3 | 2.5 | 4.2 | 4.4 | 4.4  | 5.3  | 30.3 | 5.0                            | 1793                    |
|        | 09-11             | 21.6  | 6.6 | 5.7 | 6.0 | 4.5 | 4.7 | 5.2 | 4.8 | 6.9  | 7.2  | 26.7 | 5.3                            | 1798                    |
|        | 12-14             | 9.5   | 3.8 | 4.0 | 4.8 | 3.9 | 5.6 | 7.2 | 7.3 | 9.7  | 10.5 | 33.7 | 6.7                            | 1798                    |
|        | 15-17             | 5.6   | 3.3 | 3.5 | 3.5 | 3.6 | 4.1 | 5.6 | 8.0 | 11.2 | 12.1 | 38.6 | 7.3                            | 1797                    |
|        | 18-20             | 13.5  | 4.6 | 5.5 | 4.1 | 4.2 | 4.1 | 5.4 | 6.2 | 6.6  | 6.6  | 35.2 | 6.4                            | 1798                    |
|        | 21-23             | 30.8  | 6.0 | 6.2 | 4.3 | 4.6 | 2.2 | 4.3 | 4.5 | 5.0  | 3.9  | 28.2 | 4.8                            | 1797                    |
|        |                   |   |     |     |     |     |     |     |     |      |      |      |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |      |      |      |                                |                         |
| TOTALS |                   | 23.8  | 5.1 | 4.8 | 4.3 | 3.8 | 3.4 | 5.0 | 5.2 | 6.7  | 6.9  | 31.1 | 5.5                            | 14300                   |

**5**

अथवा

100

**Chung**

**Michigan**

100

**McGraw-Hill**

**Focus**

## SKY COVER

July  
MONTH

[illegible]

## SKY COVER

PERIOD

MONIH

| MONTH  | HOURS<br>DST) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |     |     |     |     |     |     |      |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |       |
|--------|---------------|---|------|-----|-----|-----|-----|-----|-----|------|------|--------------------------------|-------------------------|-------|
|        |               | 0   | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8    | 9    |                                |                         | 10    |
| AUG.   | 00-02         | 45.1  | 6.9  | 5.4 | 5.3 | 4.3 | 2.6 | 4.0 | 3.8 | 3.5  | 3.0  | 15.1                           | 3.3                     | 1871  |
|        | 03-05         | 45.2  | 7.8  | 5.4 | 4.4 | 3.6 | 2.4 | 4.3 | 4.3 | 4.0  | 3.5  | 14.0                           | 3.2                     | 1890  |
|        | 06-08         | 39.8  | 7.6  | 5.4 | 5.3 | 3.6 | 2.6 | 4.1 | 4.9 | 5.7  | 6.3  | 14.6                           | 3.7                     | 1891  |
|        | 09-11         | 33.4  | 10.4 | 7.4 | 5.1 | 4.5 | 4.2 | 5.2 | 5.8 | 6.5  | 5.8  | 11.3                           | 3.7                     | 1891  |
|        | 12-14         | 12.4  | 7.2  | 6.6 | 7.0 | 5.7 | 6.9 | 3.5 | 9.8 | 10.8 | 10.9 | 13.9                           | 5.4                     | 1891  |
|        | 15-17         | 9.5   | 4.4  | 4.3 | 3.3 | 4.3 | 5.1 | 7.2 | 9.0 | 10.6 | 13.4 | 26.7                           | 6.5                     | 1891  |
|        | 18-20         | 15.7  | 4.7  | 5.8 | 5.6 | 4.1 | 4.0 | 6.3 | 7.2 | 9.6  | 9.2  | 28.0                           | 6.0                     | 1890  |
|        | 21-23         | 34.5  | 5.8  | 6.1 | 5.1 | 4.2 | 3.5 | 6.0 | 5.0 | 5.6  | 4.3  | 19.7                           | 4.2                     | 1891  |
|        |               |   |      |     |     |     |     |     |     |      |      |                                |                         |       |
|        |               |   |      |     |     |     |     |     |     |      |      |                                |                         |       |
|        |               |   |      |     |     |     |     |     |     |      |      |                                |                         |       |
| TOTALS |               | 29.5  | 6.9  | 5.9 | 5.4 | 4.3 | 4.0 | 5.7 | 6.2 | 7.1  | 7.1  | 17.9                           | 4.5                     | 15125 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

93037  
STATION

COLORADO SPRINGS COLLEGE-PETERSON FD  
STATION NAME

40-62  
PERIOD

S.P.  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(A.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS |       |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------|------------------------|-------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |                                |                        | 10    |
| SEP    | 00-02             | 50.4  | 4.1 | 4.5 | 3.8 | 2.3 | 1.5 | 2.4 | 2.2 | 2.7 | 1.7 | 18.3                           | 2.9                    | 1830  |
|        | 03-05             | 56.3  | 4.3 | 4.0 | 2.6 | 2.2 | 2.5 | 2.5 | 2.0 | 2.7 | 2.1 | 19.1                           | 3.0                    | 1832  |
|        | 06-08             | 48.4  | 5.4 | 5.5 | 3.9 | 2.2 | 2.6 | 3.2 | 3.3 | 4.3 | 3.5 | 19.5                           | 3.6                    | 1831  |
|        | 09-11             | 41.7  | 6.5 | 5.5 | 4.0 | 3.5 | 2.5 | 3.8 | 4.5 | 4.8 | 4.3 | 16.8                           | 3.6                    | 1830  |
|        | 12-14             | 31.4  | 8.5 | 5.7 | 5.6 | 5.0 | 5.0 | 4.6 | 5.5 | 6.2 | 7.4 | 14.5                           | 4.1                    | 1829  |
|        | 15-17             | 26.7  | 7.0 | 5.9 | 5.2 | 3.8 | 3.8 | 6.6 | 6.7 | 7.7 | 9.6 | 17.4                           | 4.7                    | 1830  |
|        | 18-20             | 33.4  | 8.1 | 4.4 | 4.8 | 3.1 | 4.2 | 6.0 | 5.9 | 6.1 | 4.3 | 19.2                           | 4.2                    | 1829  |
|        | 21-23             | 48.4  | 5.0 | 5.2 | 4.5 | 3.1 | 2.8 | 4.1 | 3.8 | 3.4 | 2.8 | 16.8                           | 3.3                    | 1830  |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                        |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                        |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                        |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                        |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                        |       |
| TOTALS |                   | 42.7  | 6.4 | 5.1 | 4.3 | 3.2 | 3.1 | 4.1 | 4.2 | 4.7 | 4.5 | 17.8                           | 3.7                    | 14635 |

## SKY COVER

MON

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |       |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------------------|-------------------------|-------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |                                |                         | 10    |
| U.C.I. | 30-02             | 60.9  | 4.2 | 3.5 | 1.9 | 2.2 | 1.6 | 2.6 | 2.7 | 2.3 | 1.8 | 16.2                           | 2.6                     | 1688  |
|        | 03-05             | 59.7  | 5.8 | 3.5 | 3.1 | 2.7 | 1.3 | 2.3 | 2.4 | 2.5 | 2.2 | 15.7                           | 3.7                     | 1688  |
|        | 06-08             | 46.4  | 5.2 | 3.9 | 3.2 | 2.5 | 1.7 | 3.9 | 4.0 | 4.1 | 5.5 | 19.4                           | 3.7                     | 1887  |
|        | 09-11             | 43.0  | 6.0 | 3.0 | 3.4 | 2.8 | 2.3 | 4.0 | 3.3 | 4.3 | 5.7 | 19.7                           | 3.5                     | 1897  |
|        | 12-14             | 37.9  | 7.0 | 5.1 | 4.8 | 4.0 | 3.0 | 5.1 | 4.9 | 4.3 | 6.1 | 17.8                           | 3.9                     | 1897  |
|        | 15-17             | 35.5  | 6.9 | 4.9 | 4.9 | 3.5 | 2.7 | 4.9 | 5.7 | 5.6 | 5.5 | 19.0                           | 4.1                     | 1883  |
|        | 18-20             | 47.4  | 6.1 | 4.4 | 4.1 | 4.1 | 2.5 | 3.7 | 3.4 | 3.8 | 3.3 | 17.0                           | 3.3                     | 1897  |
|        | 21-23             | 57.4  | 5.1 | 4.7 | 3.0 | 2.2 | 1.9 | 2.2 | 2.4 | 2.5 | 2.3 | 16.9                           | 2.3                     | 1697  |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
|        |                   |   |     |     |     |     |     |     |     |     |     |                                |                         |       |
| TOTALS |                   | 48.7  | 5.8 | 4.1 | 3.5 | 3.0 | 2.2 | 3.6 | 3.6 | 3.7 | 5.0 | 17.7                           | 3.4                     | 15115 |

## SKY COVER

PERIOD

MONIN

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO OF<br>OBS |
|--------|----------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------------------------|-----------------------|
|        |                | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   |                                |                       |
| MAY    | 00-02          | 51.4  | 4.6 | 3.4 | 2.6 | 2.5 | 1.7 | 2.6 | 2.8 | 3.0 | 2.0 | 22.5 | 3.4                            | 1830                  |
|        | 03-05          | 50.5  | 5.0 | 4.1 | 3.2 | 2.8 | 1.2 | 3.0 | 2.5 | 3.1 | 2.1 | 22.2 | 3.4                            | 1830                  |
|        | 06-08          | 34.7  | 6.4 | 5.2 | 3.6 | 2.9 | 3.1 | 3.4 | 4.3 | 5.3 | 5.3 | 23.8 | 4.8                            | 1830                  |
|        | 09-11          | 31.4  | 7.2 | 4.8 | 4.6 | 2.9 | 2.7 | 3.5 | 4.7 | 5.3 | 7.0 | 23.6 | 4.7                            | 1830                  |
|        | 12-14          | 31.8  | 6.1 | 4.6 | 4.0 | 3.3 | 2.1 | 2.2 | 4.6 | 6.4 | 7.7 | 25.1 | 4.3                            | 1830                  |
|        | 15-17          | 31.2  | 6.3 | 4.8 | 3.4 | 3.0 | 2.9 | 3.3 | 5.2 | 6.1 | 7.1 | 26.2 | 4.7                            | 1829                  |
|        | 18-20          | 41.1  | 5.1 | 4.5 | 4.2 | 3.2 | 1.9 | 4.7 | 3.4 | 3.1 | 3.4 | 24.8 | 4.0                            | 1830                  |
|        | 21-23          | 50.4  | 5.4 | 4.2 | 3.2 | 2.4 | 1.7 | 2.2 | 2.1 | 2.3 | 2.6 | 22.8 | 3.3                            | 1830                  |
| TOTALS |                | 40.3  | 5.8 | 4.9 | 3.6 | 2.9 | 2.3 | 3.4 | 3.7 | 4.5 | 4.7 | 24.4 | 4.7                            | 14630                 |

## SKY COVER

15

STATION

STATION NAME

PERIOD

**MONIM**

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------------------------|-------------------------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   |                                |                         |
| DEC    | 01-02             | 49.0  | 5.6 | 4.4 | 4.7 | 2.9 | 1.8 | 2.2 | 3.3 | 2.1 | 2.4 | 19.8 | 3.3                            | 189                     |
|        | 03-05             | 50.4  | 4.9 | 4.8 | 4.3 | 3.2 | 2.0 | 3.3 | 3.0 | 3.7 | 2.6 | 17.7 | 3.2                            | 189                     |
|        | 06-08             | 33.9  | 6.3 | 4.6 | 4.9 | 3.1 | 3.3 | 4.6 | 5.6 | 5.6 | 5.4 | 22.3 | 4.5                            | 189                     |
|        | 09-11             | 32.3  | 5.7 | 3.6 | 4.0 | 3.1 | 7.4 | 4.3 | 5.0 | 7.5 | 6.8 | 25.7 | 4.4                            | 189                     |
|        | 12-14             | 30.0  | 7.2 | 4.4 | 4.1 | 3.1 | 2.8 | 4.5 | 5.6 | 6.4 | 7.2 | 24.6 | 4.3                            | 189                     |
|        | 15-17             | 30.1  | 7.2 | 5.3 | 4.0 | 3.5 | 3.0 | 4.1 | 5.0 | 6.1 | 7.5 | 24.2 | 4.6                            | 189                     |
|        | 18-20             | 42.2  | 5.9 | 4.7 | 4.4 | 4.2 | 3.0 | 3.9 | 4.4 | 4.1 | 2.3 | 20.9 | 3.7                            | 189                     |
|        | 21-23             | 45.3  | 4.4 | 5.7 | 5.1 | 4.2 | 2.3 | 3.5 | 3.3 | 3.1 | 2.9 | 20.1 | 3.6                            | 189                     |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |                                |                         |
|        |                   |   |     |     |     |     |     |     |     |     |     |      |                                |                         |
| TOTALS |                   | 37.2  | 5.8 | 4.7 | 4.4 | 3.4 | 2.6 | 3.9 | 4.4 | 4.9 | 4.6 | 21.9 | 4.1                            | 1512                    |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# SKY COVER

93037  
STATION

COLORADO SPRINGS COLC-PETERSON FJ  
STATION NAME

40-05  
PERIOD

ALL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENS OF TOTAL SKY COVER |     |     |     |     |     |     |     |     |     |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------------------------|-------------------------|
|        |                   | 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   |                                |                         |
| JAN    | ALL               | 39.7  | 5.3 | 5.3 | 4.0 | 3.4 | 2.5 | 3.3 | 4.7 | 4.3 | 4.9 | 22.2 | 4.1                            | 13124                   |
| FEB    |                   | 34.1  | 5.3 | 4.6 | 4.3 | 3.0 | 2.7 | 4.0 | 4.0 | 5.2 | 4.7 | 27.4 | 4.7                            | 13729                   |
| MAR    |                   | 31.2  | 5.5 | 4.7 | 4.1 | 3.3 | 2.8 | 4.1 | 4.4 | 5.1 | 5.1 | 29.9 | 4.9                            | 15045                   |
| APR    |                   | 28.2  | 5.4 | 4.5 | 4.2 | 3.4 | 2.9 | 4.2 | 4.0 | 5.0 | 6.2 | 30.3 | 5.2                            | 13927                   |
| MAY    |                   | 23.5  | 5.1 | 4.8 | 4.3 | 3.6 | 3.4 | 5.0 | 5.2 | 6.7 | 6.9 | 31.1 | 5.5                            | 14387                   |
| JUN    |                   | 35.5  | 6.0 | 5.3 | 4.4 | 4.0 | 3.0 | 4.7 | 5.0 | 5.9 | 6.0 | 19.3 | 4.2                            | 13914                   |
| JUL    |                   | 23.5  | 7.4 | 6.2 | 5.9 | 5.0 | 4.4 | 6.0 | 7.0 | 7.5 | 8.2 | 17.1 | 4.7                            | 15126                   |
| AUG    |                   | 29.4  | 6.9 | 5.9 | 5.4 | 4.3 | 4.0 | 5.7 | 6.2 | 7.1 | 7.1 | 17.9 | 4.3                            | 15120                   |
| SEP    |                   | 42.7  | 5.4 | 5.1 | 4.3 | 3.2 | 3.1 | 4.1 | 4.2 | 4.7 | 4.5 | 17.8 | 2.7                            | 14639                   |
| OCT    |                   | 48.7  | 5.8 | 4.1 | 3.5 | 3.0 | 2.2 | 3.0 | 3.6 | 3.7 | 4.0 | 17.7 | 3.4                            | 15113                   |
| NOV    |                   | 40.3  | 5.8 | 4.5 | 3.6 | 2.9 | 2.3 | 3.4 | 3.7 | 4.5 | 4.7 | 24.4 | 4.2                            | 14637                   |
| DEC    |                   | 39.2  | 5.9 | 4.7 | 4.4 | 3.4 | 2.8 | 3.3 | 4.4 | 4.9 | 4.6 | 21.9 | 4.1                            | 15127                   |
| TOTALS |                   | 34.9  | 6.0 | 4.9 | 4.4 | 3.5 | 3.0 | 4.4 | 4.8 | 5.5 | 5.6 | 23.0 | 4.4                            | 75882                   |

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

## PART E

## PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

- 4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
- 5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

DATA PROCESSING DIVISION  
 USAF ETAC  
 AIR WEATHER SERVICE/MAC  
 93037 COLORADO SPRINGS COLG/PETERSON PD 42-68

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MAXIMUM

| TEMP (°F)  | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP    | OCT    | NOV    | DEC    | ANNUAL |
|------------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 100        |        |        |        |        |        | .3    | .1    |       |        |        |        |        | .0     |
| 95         |        |        |        |        |        | 1.6   | 3.6   | 1.1   | .1     |        |        |        | .5     |
| 90         |        |        |        |        | .1     | 12.8  | 25.9  | 13.9  | 4.1    |        |        |        | 4.7    |
| 85         |        |        |        |        | 3.7    | 33.6  | 58.1  | 46.4  | 16.9   |        |        |        | 13.3   |
| 80         |        |        | .1     | .5     | 14.8   | 53.3  | 80.3  | 71.3  | 41.2   | 6.9    |        |        | 22.4   |
| 75         |        | .1     | .8     | 9.7    | 32.3   | 70.0  | 92.7  | 89.2  | 63.3   | 22.6   | .1     | .1     | 31.7   |
| 70         |        | 1.5    | 3.9    | 22.4   | 49.7   | 84.4  | 97.8  | 95.2  | 76.9   | 42.3   | 3.6    | .5     | 39.9   |
| 65         | 1.9    | 4.6    | 11.4   | 36.0   | 67.9   | 93.2  | 99.3  | 97.8  | 86.2   | 59.4   | 14.1   | 2.7    | 47.9   |
| 60         | 6.7    | 11.9   | 25.1   | 52.3   | 79.9   | 93.7  | 99.9  | 99.0  | 92.3   | 73.6   | 30.0   | 11.0   | 56.7   |
| 55         | 20.3   | 24.6   | 38.3   | 67.3   | 88.8   | 98.1  | 100.0 | 99.8  | 96.0   | 82.9   | 46.4   | 23.6   | 65.5   |
| 50         | 38.1   | 38.7   | 52.3   | 78.8   | 92.9   | 99.3  |       | 100.0 | 98.0   | 90.6   | 61.1   | 40.1   | 74.2   |
| 45         | 49.6   | 53.4   | 65.5   | 86.4   | 97.3   | 99.9  |       |       | 98.6   | 95.0   | 72.2   | 54.1   | 81.0   |
| 40         | 62.5   | 66.5   | 75.5   | 92.7   | 98.8   | 100.0 |       |       | 99.4   | 98.3   | 81.6   | 67.5   | 86.9   |
| 35         | 75.2   | 77.6   | 84.3   | 93.5   | 99.9   |       |       |       | 100.0  | 99.6   | 88.3   | 78.5   | 91.6   |
| 30         | 84.9   | 86.8   | 89.9   | 98.6   | 100.0  |       |       |       |        | 100.0  | 94.2   | 88.5   | 95.3   |
| 25         | 90.3   | 94.0   | 95.6   | 99.6   |        |       |       |       |        |        | 97.5   | 94.9   | 97.7   |
| 20         | 95.3   | 97.0   | 98.0   | 100.0  |        |       |       |       |        |        | 99.6   | 97.5   | 98.9   |
| 15         | 97.0   | 98.1   | 98.9   |        |        |       |       |       |        |        | 99.8   | 98.8   | 99.4   |
| 10         | 97.9   | 99.2   | 99.6   |        |        |       |       |       |        |        | 100.0  | 99.4   | 99.7   |
| 5          | 98.4   | 99.7   | 99.9   |        |        |       |       |       |        |        |        | 99.9   | 99.8   |
| 0          | 99.6   | 100.0  | 100.0  |        |        |       |       |       |        |        |        | 100.0  | 100.0  |
| -5         | 99.9   |        |        |        |        |       |       |       |        |        |        |        | 100.0  |
| -10        | 100.0  |        |        |        |        |       |       |       |        |        |        |        | 100.0  |
| MEAN       | 42.9   | 44.7   | 48.9   | 59.0   | 68.2   | 79.1  | 84.7  | 82.6  | 75.6   | 65.6   | 51.4   | 45.0   | 62.9   |
| S D        | 13.436 | 13.034 | 13.509 | 12.205 | 10.957 | 9.670 | 6.677 | 7.049 | 10.148 | 10.802 | 12.381 | 12.369 | 18.778 |
| TOTAL OBS. | 806    | 729    | 796    | 750    | 775    | 750   | 806   | 806   | 810    | 837    | 810    | 837    | 9512   |

DATA PROCESSING DIVISION

USAF ETAC

AIR WEATHER SERVICE/MAC

93037 COLDPRADO SPRINGS COLO/PETERSON FD 42-68

STATION

STATION NAME

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

| TEMP (°F) | JAN    | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-----------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 70        |        |       |        |       |       | .5    | 2.0   | .5    | .1    |       |       |       | .0     |
| 65        |        |       |        |       | .1    | 6.1   | 26.2  | 12.9  | 2.5   | .1    |       |       | .3     |
| 60        |        |       |        |       | 2.3   | 24.9  | 72.1  | 58.7  | 13.5  | .5    |       |       | 14.4   |
| 55        |        |       | .1     | .9    | 12.0  | 64.3  | 96.5  | 91.8  | 38.9  | 3.6   | .2    |       | 25.7   |
| 50        |        | .3    | 1.1    | 6.1   | 35.5  | 88.8  | 99.5  | 98.8  | 67.2  | 15.8  | .5    |       | 34.2   |
| 45        | .5     | .4    | 2.8    | 20.0  | 64.3  | 96.7  | 100.0 | 100.0 | 87.4  | 40.0  | 2.8   | .5    | 42.9   |
| 40        | 2.5    | 3.6   | 9.0    | 40.8  | 87.4  | 98.9  |       |       | 95.5  | 66.4  | 11.9  | 2.5   | 51.6   |
| 35        | 3.5    | 6.2   | 14.4   | 51.2  | 91.2  | 99.9  |       |       | 97.7  | 76.5  | 20.1  | 4.7   | 53.4   |
| 30        | 8.6    | 12.3  | 24.2   | 66.3  | 96.8  | 100.0 |       |       | 96.8  | 85.5  | 33.1  | 9.2   | 61.2   |
| 25        | 23.1   | 27.7  | 47.5   | 84.5  | 99.2  |       |       |       | 100.0 | 95.5  | 55.8  | 27.2  | 71.7   |
| 20        | 41.8   | 51.6  | 69.1   | 94.1  | 100.0 |       |       |       |       | 99.5  | 74.8  | 50.2  | 81.7   |
| 15        | 60.9   | 70.2  | 82.7   | 98.1  |       |       |       |       |       | 100.0 | 87.0  | 70.0  | 89.1   |
| 10        | 73.6   | 83.5  | 89.8   | 98.9  |       |       |       |       |       |       | 95.3  | 85.5  | 93.9   |
| 5         | 83.1   | 90.5  | 94.7   | 99.5  |       |       |       |       |       |       | 97.7  | 91.8  | 96.4   |
| 0         | 92.2   | 95.3  | 97.0   | 99.9  |       |       |       |       |       |       | 98.4  | 96.9  | 98.3   |
| -5        | 95.8   | 96.6  | 98.2   | 100.0 |       |       |       |       |       |       | 99.5  | 99.4  | 99.3   |
| -10       | 97.8   | 99.5  | 99.4   |       |       |       |       |       |       |       | 100.0 | 99.6  | 99.7   |
| -15       | 99.0   | 99.7  | 99.9   |       |       |       |       |       |       |       |       | 100.0 | 99.9   |
| -20       | 99.8   | 99.9  | 100.0  |       |       |       |       |       |       |       |       |       | 100.0  |
| -25       | 99.9   |       |        |       |       |       |       |       |       |       |       |       | 100.0  |
| -30       | 100.0  | 100.0 |        |       |       |       |       |       |       |       |       |       | 100.0  |
| MEAN      | 15.0   | 10.6  | 22.8   | 32.5  | 41.9  | 51.0  | 56.7  | 55.1  | 47.2  | 37.3  | 23.8  | 18.6  | 33.2   |
| S. D.     | 11.083 | 9.969 | 10.184 | 8.229 | 6.626 | 5.584 | 3.986 | 4.000 | 6.800 | 7.185 | 6.975 | 9.001 | 16.482 |
| TOTAL OBS | 806    | 729   | 796    | 750   | 775   | 750   | 806   | 806   | 810   | 837   | 810   | 837   | 9512   |

COLORADO SPRINGS COLOR/PETERSON PD #2-58

YEARS

4732

1210 WS FORM JUL 64 0-21 5 (Det 50) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

3

DATA PROCESSING DIVISION  
USAF LTAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

93037 STATION COLORADO SPRINGS COLO/PETERSON AFB 42-69  
STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT

| MONTH      | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ALL MONTHS |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|
| 41         |       |       |       |       |       |       |       |       | 46    | 61    | 72    | 66    |            |
| 42         | 62    | 59    | 75    | 77    | 84    | 92    | 76    | 90    | 84    | 77    | 68    | 62    | 96         |
| 43         | 62    | 64    | 64    | 64    | 81    | 92    | 93    | 94    | 87    | 78    | 68    | 61    | 94         |
| 44         | 60    | 66    | 72    | 75    | 83    | 87    | 94    | 93    | 95    | 80    | 77    | 59    | 95         |
| 45         | 63    |       |       | 78    | 75    | 94    | 96    | 94    | 92    | 82    | 65    | 66    |            |
| 46         | 63    | 65    | 65    | 73    | 86    | 89    | 96    | 95    | 92    | 86    | 59    | 66    | 96         |
| 47         | 63    | 62    |       |       |       |       | 91    | 92    | 92    | 80    | 70    | 64    |            |
| 48         | 62    | 64    | 65    | 81    | 81    | 90    | 91    | 91    | 90    | 77    | 73    | 66    | 91         |
| 49         | 69    | 65    | 67    | 77    | 83    | 99    | 88    | 89    | 86    | 83    | 71    | 63    | 89         |
| 50         | 66    | 72    | 65    | 75    | 88    | 90    | 96    | 91    | 86    | 79    | 67    | 63    | 96         |
| 51         | 57    | 53    | 64    | 73    | 81    | 94    | 93    | 92    | 92    | 79    | 71    | 47    | 94         |
| 52         | 67    | 63    | 71    | 78    | 82    | 94    | 97    | 90    | 89    | 80    | 70    | 58    | 97         |
| 53         | 65    | 71    | 68    | 80    | 88    | 100   | 100   | 99    | 90    | 83    | 71    | 65    | 100        |
| 54         | 54    | 61    | 73    | 79    | 83    | 89    | 94    | 92    | 89    | 82    | 72    | 77    | 94         |
| 55         | 69    | 66    | 73    | 77    | 85    | 95    | 96    | 92    | 90    | 83    | 73    | 66    | 95         |
| 56         | 62    | 70    | 64    | 69    | 77    | 92    | 98    | 91    | 86    | 80    | 69    | 70    | 96         |
| 57         | 64    | 70    | 68    | 75    | 87    | 92    | 95    | 93    | 92    | 83    | 74    | 66    | 95         |
| 58         | 64    | 64    | 69    | 79    | 83    | 91    | 94    | 94    | 94    | 79    | 70    | 68    | 94         |
| 59         | 66    | 59    | 73    | 81    | 82    | 96    | 97    | 94    | 94    | 80    | 68    | 65    | 97         |
| 60         | 62    | 68    | 66    | 77    | 87    | 92    | 93    | 89    | 83    | 78    | 65    | 59    | 93         |
| 61         | 53    | 71    | 71    | 79    | 66    | 92    | 91    | 96    | 89    | 84    | 66    | 63    | 98         |
| 62         | 60    | 76    | 80    | 78    | 87    | 98    | 99    | 96    | 87    | 83    | 71    | 60    | 99         |
| 63         | 59    | 58    | 69    | 79    | 92    | 91    | 99    | 95    | 92    | 86    | 74    | 71    | 99         |
| 64         | 62    | 61    | 66    | 78    | 81    | 87    | 91    | 89    | 83    | 79    | 70    | 68    | 91         |
| 65         | 55    | 52    | 76    | 77    | 87    | 91    | 96    | 92    | 87    | 78    | 56    | 62    | 96         |
| 66         | 65    | 63    | 76    | 77    | 86    | 83    | 90    | 91    | 83    | 84    | 73    | 59    | 91         |
| 67         | 53    | 60    | 73    | 74    | 81    | 97    | 91    | 86    | 85    | 81    | 67    | 63    | 97         |
|            |       |       |       |       |       |       |       |       |       |       |       |       |            |
|            |       |       |       |       |       |       |       |       |       |       |       |       |            |
| MEAN       | 62.7  | 55.0  | 69.6  | 76.5  | 83.9  | 92.0  | 94.3  | 92.3  | 88.6  | 80.9  | 69.6  | 64.6  | 95.1       |
| S.D.       | 3.674 | 3.204 | 4.430 | 3.698 | 3.718 | 3.742 | 3.083 | 2.753 | 3.553 | 2.670 | 3.671 | 4.282 | 2.755      |
| TOTAL OBS. | 800   | 707   | 744   | 750   | 775   | 750   | 806   | 806   | 810   | 837   | 810   | 837   | 9438       |

DATA PROCESSING DIVISION  
USAF ETAC  
AIR WEATHER SERVICE/MAC

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

93057      GOLDMAN SPRINGS GOLD/PETERSON FD      42-06  
STATION      STATION NAME

WIND SPEEDS IN KNOTS  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

3



**Abstract**

1000



1

1





DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

93037 COLORADO SPRINGS COL W-PETERSON, FD 43-23

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1 ALL

-CUMULATIVE-

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    | TOTAL |    | TOTAL |          |          |           |  |
|--------------|-------------------------------------|---|---|---|---|------------|---|---|---|---|----|----|----|----|----|------------|----|----|----|----|----------|----|----|----|----|------------------------------------|----|----|----|----|----|-------|----|-------|----------|----------|-----------|--|
|              | 0                                   | 1 | 2 | 3 | 4 | 5          | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15         | 16 | 17 | 18 | 19 | 20       | 21 | 22 | 23 | 24 | 25                                 | 26 | 27 | 28 | 29 | 30 | 31    | DB | WB    | Dry Bulb | Wet Bulb | Dew Point |  |
| 63/ 67       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 66/ 65       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 64/ 63       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 62/ 61       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 60/ 59       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 58/ 57       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 56/ 55       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 54/ 53       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 52/ 51       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 50/ 49       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 48/ 47       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 46/ 45       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 44/ 43       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 42/ 41       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 40/ 39       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 38/ 37       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 36/ 35       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 34/ 33       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 32/ 31       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 30/ 29       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 28/ 27       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 26/ 25       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 24/ 23       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 22/ 21       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 20/ 19       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 18/ 17       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 16/ 15       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 14/ 13       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 12/ 11       |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 10/ 9        |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 8/ 7         |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 6/ 5         |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 4/ 3         |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| 2/ 1         |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| Element (X)  | $\Sigma X^2$                        |   |   |   |   | $\Sigma X$ |   |   |   |   | X  |    |    |    |    | $\sigma_x$ |    |    |    |    | No. Obs. |    |    |    |    | Mean No. of Hours with Temperature |    |    |    |    |    | Total |    |       |          |          |           |  |
| Rel. Hum.    |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| Dry Bulb     |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| Wet Bulb     |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |
| Dew Point    |                                     |   |   |   |   |            |   |   |   |   |    |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |    |       |    |       |          |          |           |  |

1210 WS FORM 0-26-5 (OLI) JAN 64 REVISE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2023

1000

111

STATION

STATION NAME\$

VEARS

2000

**Abstract**

MOVERS 2 2 2

[illegible]

DATA PROCESSING DIVISION  
 61AC, USAF  
 ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

93037 COLORADO SPRINGS COLO-PETERS, W. F. 43-58

FE6

STATION

STATION NAME

YEARS

MONTH

PAGE 1 ALL

HOURS (S. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             | TOTAL<br>DB / WB |      | TOTAL<br>Dry Bulb Wet Bulb |      | Dew Point   |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
|--------------|-------------------------------------|---|---|---|---|------------|---|---|---|---|-----------|----|----|----|----|------------|----|----|----|----|----------|----|----|----|----|------------------------------------|----|----|----|----|-------------|------------------|------|----------------------------|------|-------------|--|--|--|--|-------------|--|--|--|--|-------------|--|--|--|--|-------------|--|--|--|--|-------|--|--|--|--|
|              | 0                                   | 1 | 2 | 3 | 4 | 5          | 6 | 7 | 8 | 9 | 10        | 11 | 12 | 13 | 14 | 15         | 16 | 17 | 18 | 19 | 20       | 21 | 22 | 23 | 24 | 25                                 | 26 | 27 | 28 | 29 | 30          | 31               |      |                            |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 52/ 51       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 1    | 1                          |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 76/ 75       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 1    | 1                          |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 76/ 73       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 3    | 3                          |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 72/ 71       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 5    | 5                          |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 70/ 69       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 19   | 19                         |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 68/ 67       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 31   | 31                         |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 66/ 65       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 38   | 38                         |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 64/ 63       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 78   | 78                         |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 62/ 61       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 99   | 99                         |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 60/ 59       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 150  | 150                        |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 58/ 57       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 194  | 194                        |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 56/ 55       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 262  | 262                        |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 54/ 53       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 289  | 289                        |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 52/ 51       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 345  | 345                        |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 50/ 49       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 434  | 434                        | 6    |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 48/ 47       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 457  | 457                        | 28   | 4           |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 46/ 45       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 523  | 523                        | 53   |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 44/ 43       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 555  | 555                        | 126  | 27          |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 42/ 41       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 696  | 696                        | 261  | 4           |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 40/ 39       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 690  | 690                        | 480  | 2           |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 38/ 37       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 742  | 742                        | 630  | 12          |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 36/ 35       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 765  | 765                        | 685  | 14          |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 34/ 33       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 832  | 832                        | 1019 | 39          |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 32/ 31       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 921  | 921                        | 1369 | 120         |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 30/ 29       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 1008 | 1008                       | 1501 | 278         |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 28/ 27       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 969  | 969                        | 1509 | 327         |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 26/ 25       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 915  | 915                        | 1483 | 748         |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 24/ 23       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 869  | 869                        | 1261 | 990         |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 22/ 21       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 785  | 785                        | 1084 | 1311        |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 20/ 19       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 699  | 701                        | 1013 | 1164        |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 18/ 17       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 528  | 529                        | 777  | 1477        |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 16/ 15       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 407  | 407                        | 579  | 1405        |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 14/ 13       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 294  | 295                        | 518  | 1324        |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| 12/ 11       |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  | 253  | 253                        | 312  | 1347        |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| Element (X)  | $\Sigma x^2$                        |   |   |   |   | $\Sigma x$ |   |   |   |   | $\bar{x}$ |    |    |    |    | $\sigma_x$ |    |    |    |    | No. Obs. |    |    |    |    | Mean No. of Hours with Temperature |    |    |    |    |             |                  |      |                            |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| Rel. Hum.    |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    | $\leq 0$ F                         |    |    |    |    | $\leq 32$ F |                  |      |                            |      | $\geq 67$ F |  |  |  |  | $\geq 73$ F |  |  |  |  | $\geq 80$ F |  |  |  |  | $\geq 93$ F |  |  |  |  | Total |  |  |  |  |
| Dry Bulb     |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  |      |                            |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| Wet Bulb     |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  |      |                            |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |
| Dew Point    |                                     |   |   |   |   |            |   |   |   |   |           |    |    |    |    |            |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |             |                  |      |                            |      |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |             |  |  |  |  |       |  |  |  |  |

REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 1210 W.S. JUL 64 0-26-5 (OL I)

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 27501

# PSYCHROMETRIC SUMMARY

93037 COLDSPRING SPRINGS COLORADO-PETERSON, EC 41-65

FT

STATION

STATION NAME

YEARS

MONTH

PAGE 2 ALL  
FOURS & 5 T

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|---------|----------|----------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|----|--------------------|----------|-----------|-------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2     | 3-4      | 5-6      | 7-8     | 9-10    | 11-12   | 13-14   | 15-16   | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | 31 | D.B./W.B.-Dry Bulb | Wet Bulb | Dew Point |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 10/-         | 4                                   | .5      | .7       | .8       |         |         |         |         |         |       |       |       |       |       |       |       |    | 174                | 174      | 257       | 1049  |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6/-          | 7                                   | .3      | .5       | .6       |         |         |         |         |         |       |       |       |       |       |       |       |    | 142                | 142      | 195       | 925   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6/-          | 5                                   | .4      | .6       | .7       |         |         |         |         |         |       |       |       |       |       |       |       |    | 137                | 136      | 141       | 767   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4/-          | 3                                   | .3      | .5       | .6       |         |         |         |         |         |       |       |       |       |       |       |       |    | 135                | 135      | 142       | 566   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2/-          | 1                                   | .4      | .6       | .7       |         |         |         |         |         |       |       |       |       |       |       |       |    | 102                | 102      | 107       | 477   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 0/-          | 1                                   | .2      | .3       | .4       |         |         |         |         |         |       |       |       |       |       |       |       |    | 66                 | 66       | 97        | 310   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -2/-         | 3                                   | .1      | .2       | .3       |         |         |         |         |         |       |       |       |       |       |       |       |    | 9                  | 9        | 48        | 245   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -4/-         | 5                                   | .1      | .1       | .2       |         |         |         |         |         |       |       |       |       |       |       |       |    | 18                 | 16       | 39        | 296   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -6/-         | 7                                   | .0      | .1       | .1       |         |         |         |         |         |       |       |       |       |       |       |       |    | 16                 | 16       | 15        | 213   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -8/-         | 9                                   | .0      | .1       | .1       |         |         |         |         |         |       |       |       |       |       |       |       |    | 19                 | 19       | 21        | 147   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -10/-        | 11                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 4                  | 4        | 5         | 114   |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -12/-        | 13                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 5                  | 5        | 5         | 68    |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -14/-        | 15                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 3                  | 3        | 9         | 31    |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -16/-        | 17                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           | 25    |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -18/-        | 19                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 1                  | 1        | 1         | 11    |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -20/-        | 21                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           | 2     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -22/-        | 23                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 2                  | 2        | 2         | 5     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -24/-        | 25                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 5                  | 5        | 5         | 2     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -26/-        | 27                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    | 1                  | 1        | 1         | 1     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -28/-        | 29                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           | 7     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -30/-        | 31                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           | 1     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -32/-        | 33                                  | .0      | .0       | .0       |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           | 2     |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        |                                     | 5,522.4 | 15,212.7 | 10,287.3 | 5,678.6 | 5,678.6 | 4,287.6 | 2,876.5 | 1,765.4 | .9    | .3    | .1    | .0    |       |       |       |    | 15757              | 15763    | 15764     | 15764 |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    | 15757              | 15758    |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |         |          |          |         |         |         |         |         |       |       |       |       |       |       |       |    |                    |          |           |       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

DATA PROCESSING DIVISION  
 FTAC, USAF  
 ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

93037 COLORADO SPRINGS (OLD-PETER) CO. F. 43-65

MONTH  
 PAGE 1 ALL  
 HOURS 1571

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |
|--------------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|
|              | 0                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 90/ 79       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 78/ 77       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 76/ 75       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 74/ 73       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 72/ 71       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 70/ 69       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 68/ 67       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 66/ 65       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 64/ 63       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 62/ 61       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 60/ 59       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 58/ 57       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 56/ 55       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 54/ 53       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 52/ 51       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 50/ 49       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 48/ 47       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 46/ 45       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 44/ 43       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 42/ 41       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 40/ 39       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 38/ 37       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 36/ 35       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 34/ 33       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 32/ 31       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 30/ 29       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 28/ 27       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 26/ 25       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 24/ 23       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 22/ 21       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 20/ 19       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 18/ 17       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 16/ 15       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           |
| 14/ 13       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | </ |    |    |    |    |    |       |           |          |          |           |

## PSYCHROMETRIC SUMMARY

MONTH

HOURS & ST

[illegible]

## PSYCHROMETRIC SUMMARY

03547

CULTURED SERIES COLLEGE-PETERSON, TC

43-47, 49-52

419-

STATION

STATION NAME

YEARS

MONITOR

PAGE 1 ALL

NOISE 3 5 11

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM  
UL 64  
0.26.5 (OLI)

1210. W's

## PSYCHROMETRIC SUMMARY

APR  
MONTH  
7 5 5 4 4  
HOURS & 5 T

[illegible]

5



3

1999

C

5

0

1

(

C

0

5

1

0

C

1

○

1

1

Q

## PSYCHROMETRIC SUMMARY

|         |                                       |           |
|---------|---------------------------------------|-----------|
| 93037   | COLUMBIA SPRINGS COLLEGE-PETERSON, FR | 43-4149-1 |
| STATION | STATION NAME                          |           |

DAY  
 MONTH  
 PAGE ALL  
 HOURS & S T:

[illegible]

## PSYCHROMETRIC SUMMARY

104

**MONIH**

HOUS 3.5.12

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        | TOTAL<br>D.B./W.B. |  | TOTAL<br>Wet Bulb Dew Point |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|-------------------------------------|---|---|---|---|----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|------------------------------------|----|----|----|----|--------|--------------------|--|-----------------------------|------|--------|--|--|--|--|--------|--|--|--|--|--------|--|--|--|--|--------|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|              | 0                                   | 1 | 2 | 3 | 4 | 5  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20       | 21 | 22 | 23 | 24 | 25                                 | 26 | 27 | 28 | 29 | 30     | 31                 |  |                             |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100/ 99      |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 2                           | 2    |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 98/ 97       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 4                           |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 96/ 95       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 12                          | 12   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94/ 93       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 38                          | 38   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92/ 91       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 87                          | 91   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90/ 89       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 166                         | 172  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88/ 87       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 303                         | 313  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86/ 85       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 413                         | 421  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84/ 82       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 449                         | 457  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82/ 81       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 500                         | 502  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80/ 79       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 576                         | 583  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78/ 77       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 587                         | 590  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76/ 75       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 665                         | 670  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74/ 73       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 702                         | 711  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72/ 71       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 716                         | 724  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70/ 69       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 894                         | 867  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68/ 67       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 857                         | 866  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66/ 65       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 894                         | 902  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64/ 63       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 913                         | 920  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62/ 61       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 934                         | 939  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60/ 59       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 1017                        | 1033 |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58/ 57       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 1003                        | 1012 |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56/ 55       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 992                         | 1001 |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54/ 53       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 884                         | 878  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52/ 51       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 740                         | 744  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50/ 49       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 516                         | 521  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48/ 47       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 406                         | 416  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46/ 45       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 223                         | 230  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44/ 43       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 113                         | 120  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42/ 41       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 101                         | 107  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40/ 39       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 68                          | 68   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38/ 37       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 18                          | 18   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36/ 35       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 20                          | 20   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34/ 33       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  | 17                          | 17   |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Element (X)  | ΣX <sup>2</sup>                     |   |   |   |   | ΣX |   |   |   |   | X̄ |    |    |    |    | Σx |    |    |    |    | No. Obs. |    |    |    |    | Mean No. of Hours with Temperature |    |    |    |    |        |                    |  |                             |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rel. Hum.    |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    | ≤ 0 F                              |    |    |    |    | ≤ 32 F |                    |  |                             |      | ≥ 47 F |  |  |  |  | ≥ 73 F |  |  |  |  | ≥ 80 F |  |  |  |  | ≥ 93 F |  |  |  |  | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dry Bulb     |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  |                             |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wet Bulb     |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  |                             |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dew Point    |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |                                    |    |    |    |    |        |                    |  |                             |      |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |        |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## PSYCHROMETRIC SUMMARY

453.

MONTH

HOURS & ST.

[illegible]

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# PSYCHROMETRIC SUMMARY

93037 COLORADO SPRINGS COLT-PETERSON F. 4-5

STATION

STATION NAME

YEARS

MONTH

PAGE 1 ALL

HOURS & S.F.

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | TOTAL<br>DB WB |      | TOTAL<br>Dry Bulb Wet Bulb |      | Dew Point |
|--------------|-------------------------------------|---|---|---|---|----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|--|----|----|----|----|----|----|----------------|------|----------------------------|------|-----------|
|              | 0                                   | 1 | 2 | 3 | 4 | 5  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20       | 21 | 22 | 23 | 24 | 25   | 26 | 27 | 28 | 29 | 30 | 31 |                |      |                            |      |           |
| 98/ 97       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 37   | 32                         |      |           |
| 96/ 95       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 72   | 72                         |      |           |
| 94/ 93       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 167  | 187                        |      |           |
| 92/ 91       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 339  | 339                        |      |           |
| 90/ 89       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 504  | 504                        |      |           |
| 88/ 87       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 712  | 712                        |      |           |
| 86/ 85       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 748  | 748                        |      |           |
| 84/ 83       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 749  | 749                        |      |           |
| 82/ 81       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 795  | 795                        |      |           |
| 80/ 79       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 837  | 837                        |      |           |
| 78/ 77       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 881  | 881                        |      |           |
| 76/ 75       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 902  | 902                        |      |           |
| 74/ 73       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 966  | 966                        |      |           |
| 72/ 71       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 1142 | 1142                       | 25   |           |
| 70/ 69       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 1241 | 1241                       | 16   |           |
| 68/ 67       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 1344 | 1344                       | 150  |           |
| 66/ 65       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 1249 | 1249                       | 667  |           |
| 64/ 63       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 1360 | 1360                       | 173  |           |
| 62/ 61       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 1234 | 1234                       | 370  |           |
| 60/ 59       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 897  | 897                        | 993  |           |
| 58/ 57       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 846  | 846                        | 1635 |           |
| 56/ 55       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 305  | 305                        | 2104 |           |
| 54/ 53       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 120  | 120                        | 2236 |           |
| 52/ 51       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 44   | 44                         | 2245 |           |
| 50/ 49       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 18   | 18                         | 1813 |           |
| 48/ 47       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 12   | 12                         | 1341 |           |
| 46/ 45       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 5    | 5                          | 1083 |           |
| 44/ 43       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              | 2    | 2                          | 349  |           |
| 42/ 41       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              |      |                            | 725  |           |
| 40/ 39       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              |      |                            | 523  |           |
| 38/ 37       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              |      |                            | 327  |           |
| 36/ 35       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              |      |                            | 285  |           |
| 34/ 33       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              |      |                            | 221  |           |
| 32/ 31       |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    | 0              |      |                            |      |           |
| Cement (X)   | Σx²                                 |   |   |   |   | Σx |   |   |   |   | Σ  |    |    |    |    | Σx |    |    |    |    | No. Obs. |    |    |    |    | Mean No. of Hours with Temperature                 |    |    |    |    |    |    |                |      |                            |      |           |
| Rel. Hum.    |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    | ≤ 0 F   ≤ 32 F   ≥ 67 F   ≥ 73 F   ≥ 80 F   ≥ 93 F |    |    |    |    |    |    | Total          |      |                            |      |           |
| Dry Bulb     |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    |                |      |                            |      |           |
| Wet Bulb     |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    |                |      |                            |      |           |
| Dew Point    |                                     |   |   |   |   |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |          |    |    |    |    |  |    |    |    |    |    |    |                |      |                            |      |           |

FORM 1210 WS JUL 64 0-26-3 (OL1) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

MONTH

DATE & TIME

[illegible]

FORM 0.26.5 (OL1)  
JUL 44

## PSYCHROMETRIC SUMMARY

21/1  
 MONTH  
 21/1  
 HOURS A S TO

[illegible]

## PSYCHROMETRIC SUMMARY

15

YEARS

MONTH

all

HOURS 1 5 11

[illegible]

DATA PROCESSING DIVISION  
ETAL, USAF  
ASHEVILLE, N. C. 28601

# PSYCHROMETRIC SUMMARY

93037 COLDSPRING SPRINGS COLU-PETERSON FD

42-05

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 ALL

HOURS 8.5 TO

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  | TOTAL<br>DB / WB | TOTAL |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|------------|----|----------|----------|-----------|----------|--|--|--|--|------------------------------------|--|--|--|--|--|------------------|-------|--|--|-------------|-------------|-------------|-------------|-------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10       | 11-12 | 13-14 | 15-16 | 17-18 | 19-20     | 21-22 | 23-24 | 25-26 | 27-28 | 29-30      | 31 | Dry Bulb | Wet Bulb | Dew Point |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94/ 73       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92/ 91       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90/ 89       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88/ 87       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86/ 85       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84/ 83       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82/ 81       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80/ 79       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78/ 77       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76/ 75       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74/ 73       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72/ 71       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70/ 69       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68/ 67       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66/ 65       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64/ 63       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62/ 61       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60/ 59       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58/ 57       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56/ 55       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54/ 53       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52/ 51       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50/ 49       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48/ 47       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46/ 45       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44/ 43       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42/ 41       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40/ 39       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38/ 37       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36/ 35       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34/ 33       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32/ 31       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30/ 29       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28/ 27       |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Element (X)  | $\Sigma X^2$                        |     |     |     |     | $\Sigma X$ |       |       |       |       | $\bar{X}$ |       |       |       |       | $\sigma_x$ |    |          |          |           | No. Obs. |  |  |  |  | Mean No. of Hours with Temperature |  |  |  |  |  |                  |       |  |  | Total       |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rel. Hum.    |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  | $\leq 0$ F                         |  |  |  |  |  |                  |       |  |  | $\leq 32$ F | $\geq 67$ F | $\geq 73$ F | $\geq 80$ F | $\geq 93$ F | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dry Bulb     |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wet Bulb     |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dew Point    |                                     |     |     |     |     |            |       |       |       |       |           |       |       |       |       |            |    |          |          |           |          |  |  |  |  |                                    |  |  |  |  |  |                  |       |  |  |             |             |             |             |             |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FORM 0-26.5 (OL-1) 1210 WS JUL 64

REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

1. **Introduction**  
 2. **Background**  
 3. **Methodology**  
 4. **Results**  
 5. **Conclusion**  
 6. **References**  
 7. **Appendix**  
 8. **Index**  
 9. **Table of Contents**  
 10. **Figure**  
 11. **Table**  
 12. **Figure**  
 13. **Table**  
 14. **Figure**  
 15. **Table**  
 16. **Figure**  
 17. **Table**  
 18. **Figure**  
 19. **Table**  
 20. **Figure**  
 21. **Table**  
 22. **Figure**  
 23. **Table**  
 24. **Figure**  
 25. **Table**  
 26. **Figure**  
 27. **Table**  
 28. **Figure**  
 29. **Table**  
 30. **Figure**  
 31. **Table**  
 32. **Figure**  
 33. **Table**  
 34. **Figure**  
 35. **Table**  
 36. **Figure**  
 37. **Table**  
 38. **Figure**  
 39. **Table**  
 40. **Figure**  
 41. **Table**  
 42. **Figure**  
 43. **Table**  
 44. **Figure**  
 45. **Table**  
 46. **Figure**  
 47. **Table**  
 48. **Figure**  
 49. **Table**  
 50. **Figure**  
 51. **Table**  
 52. **Figure**  
 53. **Table**  
 54. **Figure**  
 55. **Table**  
 56. **Figure**  
 57. **Table**  
 58. **Figure**  
 59. **Table**  
 60. **Figure**  
 61. **Table**  
 62. **Figure**  
 63. **Table**  
 64. **Figure**  
 65. **Table**  
 66. **Figure**  
 67. **Table**  
 68. **Figure**  
 69. **Table**  
 70. **Figure**  
 71. **Table**  
 72. **Figure**  
 73. **Table**  
 74. **Figure**  
 75. **Table**  
 76. **Figure**  
 77. **Table**  
 78. **Figure**  
 79. **Table**  
 80. **Figure**  
 81. **Table**  
 82. **Figure**  
 83. **Table**  
 84. **Figure**  
 85. **Table**  
 86. **Figure**  
 87. **Table**  
 88. **Figure**  
 89. **Table**  
 90. **Figure**  
 91. **Table**  
 92. **Figure**  
 93. **Table**  
 94. **Figure**  
 95. **Table**  
 96. **Figure**  
 97. **Table**  
 98. **Figure**  
 99. **Table**  
 100. **Figure**  
 101. **Table**  
 102. **Figure**  
 103. **Table**  
 104. **Figure**  
 105. **Table**  
 106. **Figure**  
 107. **Table**  
 108. **Figure**  
 109. **Table**  
 110. **Figure**  
 111. **Table**  
 112. **Figure**  
 113. **Table**  
 114. **Figure**  
 115. **Table**  
 116. **Figure**  
 117. **Table**  
 118. **Figure**  
 119. **Table**  
 120. **Figure**  
 121. **Table**  
 122. **Figure**  
 123. **Table**  
 124. **Figure**  
 125. **Table**  
 126. **Figure**  
 127. **Table**  
 128. **Figure**  
 129. **Table**  
 130. **Figure**  
 131. **Table**  
 132. **Figure**  
 133. **Table**  
 134. **Figure**  
 135. **Table**  
 136. **Figure**  
 137. **Table**  
 138. **Figure**  
 139. **Table**  
 140. **Figure**  
 141. **Table**  
 142. **Figure**  
 143. **Table**  
 144. **Figure**  
 145. **Table**  
 146. **Figure**  
 147. **Table**  
 148. **Figure**  
 149. **Table**  
 150. **Figure**  
 151. **Table**  
 152. **Figure**  
 153. **Table**  
 154. **Figure**  
 155. **Table**  
 156. **Figure**  
 157. **Table**  
 158. **Figure**  
 159. **Table**  
 160. **Figure**  
 161. **Table**  
 162. **Figure**  
 163. **Table**  
 164. **Figure**  
 165. **Table**  
 166. **Figure**  
 167. **Table**  
 168. **Figure**  
 169. **Table**  
 170. **Figure**  
 171. **Table**  
 172. **Figure**  
 173. **Table**  
 174. **Figure**  
 175. **Table**  
 176. **Figure**  
 177. **Table**  
 178. **Figure**  
 179. **Table**  
 180. **Figure**  
 181. **Table**  
 182. **Figure**  
 183. **Table**  
 184. **Figure**  
 185. **Table**  
 186. **Figure**  
 187. **Table**  
 188. **Figure**  
 189. **Table**  
 190. **Figure**  
 191. **Table**  
 192. **Figure**  
 193. **Table**  
 194. **Figure**  
 195. **Table**  
 196. **Figure**  
 197. **Table**  
 198. **Figure**  
 199. **Table**  
 200. **Figure**  
 201. **Table**  
 202. **Figure**  
 203. **Table**  
 204. **Figure**  
 205. **Table**  
 206. **Figure**  
 207. **Table**  
 208. **Figure**  
 209. **Table**  
 210. **Figure**  
 211. **Table**  
 212. **Figure**  
 213. **Table**  
 214. **Figure**  
 215. **Table**  
 216. **Figure**  
 217. **Table**  
 218. **Figure**  
 219. **Table**  
 220. **Figure**  
 221. **Table**  
 222. **Figure**  
 223. **Table**  
 224. **Figure**  
 225. **Table**  
 226. **Figure**  
 227. **Table**  
 228. **Figure**  
 229. **Table**  
 230. **Figure**  
 231. **Table**  
 232. **Figure**  
 233. **Table**  
 234. **Figure**  
 235. **Table**  
 236. **Figure**  
 237. **Table**  
 238. **Figure**  
 239. **Table**  
 240. **Figure**  
 241. **Table**  
 242. **Figure**  
 243. **Table**  
 244. **Figure**  
 245. **Table**  
 246. **Figure**  
 247. **Table**  
 248. **Figure**  
 249. **Table**  
 250. **Figure**  
 251. **Table**  
 252. **Figure**  
 253. **Table**  
 254. **Figure**  
 255. **Table**  
 256. **Figure**  
 257. **Table**  
 258. **Figure**  
 259. **Table**  
 260. **Figure**  
 261. **Table**  
 262. **Figure**  
 263

5. 4

STATION NAME

YEARS

**MONIH**

Chlorine

HOURS 1 5 7)

[illegible]

## PSYCHROMETRIC SUMMARY

MONTH

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        |          |          |           |        |  |        |  |       |  |  |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|------------|-----|------|-----------|-------|-------|------------|-------|----------|----|------------------------------------|-------|--------|----|--------|----------|----------|-----------|--------|--|--------|--|-------|--|--|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6        | 7-8 | 9-10 | 11-12     | 13-14 | 15-16 | 17-18      | 19-20 | 21-22    | 23 | 24-25                              | 26-27 | 28-29  | 30 | 31     | Dry Bulb | Wet Bulb | Dew Point |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 60/ 85       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 2        |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 64/ 83       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 14       |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 67/ 81       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 30       |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 70/ 79       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 123      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 71/ 77       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 180      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 76/ 75       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 314      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 74/ 73       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 361      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 72/ 71       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 418      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 70/ 69       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 529      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 68/ 67       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 550      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 66/ 65       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 603      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 64/ 63       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 619      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 62/ 61       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 672      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 60/ 59       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 700      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 58/ 57       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 790      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 56/ 55       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 876      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 54/ 53       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 815      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 52/ 51       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 1018     |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 50/ 49       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 1058     |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 48/ 47       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 1133     |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 46/ 45       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 1152     |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 44/ 43       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 1094     |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 42/ 41       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 1032     |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 40/ 39       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 990      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 38/ 37       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 709      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 36/ 35       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 594      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 34/ 33       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 531      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 32/ 31       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 376      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 30/ 29       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 265      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 28/ 27       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 181      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 26/ 25       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 117      |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 24/ 23       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 61       |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 22/ 21       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 23       |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| 20/ 19       |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        | 10       |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| Element (X)  | $\Sigma x^2$                        |     |     | $\Sigma x$ |     |      | $\bar{X}$ |       |       | $\sigma_x$ |       | No. Obs. |    | Mean No. of Hours with Temperature |       |        |    |        |          |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |            |     |      |           |       |       |            |       |          |    | ≤ 0 F                              |       | ≤ 32 F |    | ≥ 67 F |          | ≥ 73 F   |           | ≥ 80 F |  | ≥ 93 F |  | Total |  |  |  |  |  |                    |       |  |  |
| Dry Bulb     |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        |          |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| Wet Bulb     |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        |          |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |
| Dew Point    |                                     |     |     |            |     |      |           |       |       |            |       |          |    |                                    |       |        |    |        |          |          |           |        |  |        |  |       |  |  |  |  |  |                    |       |  |  |

### PSYCHROMETRIC SUMMARY

11

MONTH

HOURS &amp; STATION

[illegible]

## PSYCHROMETRIC SUMMARY

ॐ नमो भगवते वासुदेवाय

1000

STATION

STATION NAME

**YEARS**

MONDAY

1000

NOI-25 & S 11

[illegible]

## PSYCHROMETRIC SUMMARY

100

YEARS

MONTH

**Results:**

MOUSE 2 5 1

FORM 0-26-5 (OLD)  
MAY 1964 EDITION  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DATA PROCESSING DIVISION  
ETAL, 1957  
ASHEVILLE, N. C. 28611

# PSYCHROMETRIC SUMMARY

93067 COLLEGE SPRINGS COLLEGE PETE... 42-25

STATION

STATION NAME

YEARS

PER

MONTH

Page: All

HOURS & 5:12

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  | TOTAL<br>D B / W B | TOTAL |  |  |  |
|--------------|-------------------------------------|-----|-----|------------|-----|------|-----------|-------|-------|------------|-------|-------|----------|-------|-------|------------------------------------|----|----|----------|--|----------|-----------|--|--|--|--|--|--|--|--|--|--------------------|-------|--|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6        | 7-8 | 9-10 | 11-12     | 13-14 | 15-16 | 17-18      | 19-20 | 21-22 | 23       | 24-25 | 26-27 | 28-29                              | 30 | 31 | Dry Bulb |  | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 67/ 15       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 72/ 71       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 70/ 69       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 68/ 67       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 65/ 65       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 64/ 63       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 62/ 61       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 60/ 59       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 58/ 57       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 56/ 55       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 54/ 53       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 52/ 51       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 50/ 49       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 48/ 47       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 46/ 45       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 44/ 43       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 42/ 41       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 40/ 39       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 38/ 37       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 36/ 35       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 34/ 33       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 32/ 31       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 30/ 29       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 28/ 27       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 26/ 25       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 24/ 23       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 22/ 21       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 20/ 19       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 18/ 17       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 16/ 15       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 14/ 13       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 12/ 11       |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 10/ 9        |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| 8/ 7         |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| Element (X)  | $\Sigma X^2$                        |     |     | $\Sigma X$ |     |      | $\bar{X}$ |       |       | $\sigma_x$ |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| Rel. Hum.    |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| Dry Bulb     |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| Wet Bulb     |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |
| Dew Point    |                                     |     |     |            |     |      |           |       |       |            |       |       |          |       |       |                                    |    |    |          |  |          |           |  |  |  |  |  |  |  |  |  |                    |       |  |  |  |

## PSYCHROMETRIC SUMMARY

23.

MONITOR

HOURS 15 5 11

[illegible]

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28601

# PSYCHROMETRIC SUMMARY

93037 COLORADO SPRINGS COLORADO-PETERSON FC 42-03

ALL

STATION

STATION NAME

YEARS

MONTH

PAGE 1 ALL

HOURS & S T

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |         | TOTAL    |          |           |
|--------------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|---------|----------|----------|-----------|
|              | 0                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D B W B | Dry Bulb | Wet Bulb | Dew Point |
| 100/ 99      |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 98/ 97       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 96/ 95       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 94/ 93       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 92/ 91       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 90/ 89       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 88/ 87       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 86/ 85       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 84/ 83       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 82/ 81       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 80/ 79       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 78/ 77       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 76/ 75       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 74/ 73       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 72/ 71       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 70/ 69       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 68/ 67       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 66/ 65       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 64/ 63       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 62/ 61       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 60/ 59       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 58/ 57       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 56/ 55       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 54/ 53       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 52/ 51       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 50/ 49       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 48/ 47       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 46/ 45       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 44/ 43       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 42/ 41       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 40/ 39       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 38/ 37       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 36/ 35       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |         |          |          |           |
| 34/ 33       |                                     |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | </ |    |    |    |    |    |       |         |          |          |           |

## PSYCHROMETRIC SUMMARY

all

40374

NOTES &amp; S 1:

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |    |    |    |    |    |                |    |          |     |                                    |     |       |     |       |     |       |     |       |     |       |     |       |     |     |     |     |     |     |     |     | TOTAL |           | TOTAL    |          |
|--------------|-------------------------------------|----|----|----|----|----|----------------|----|----------|-----|------------------------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----------|----------|----------|
|              | 0                                   | 1  | 2  | 3  | 4  | 5  | 6              | 7  | 8        | 9   | 10                                 | 11  | 12    | 13  | 14    | 15  | 16    | 17  | 18    | 19  | 20    | 21  | 22    | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31    | D.B./W.B. | Dry Bulb | Wet Bulb |
| 32/31        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 30/29        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 28/27        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 26/25        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 24/23        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 22/21        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 20/19        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 18/17        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 16/15        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 14/13        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 12/11        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 10/9         | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 8/7          | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 6/5          | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 4/3          | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 2/1          | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| 0/-1         | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -2/-3        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -4/-5        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -6/-7        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -8/-9        | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -10/-11      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -12/-13      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -14/-15      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -16/-17      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -18/-19      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -20/-21      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -22/-23      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -24/-25      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -26/-27      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -28/-29      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -30/-31      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -32/-33      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| -34/-35      | .2                                  | .3 | .4 | .5 | .6 | .7 | .8             | .9 | 1.0      | 1.1 | 1.2                                | 1.3 | 1.4   | 1.5 | 1.6   | 1.7 | 1.8   | 1.9 | 2.0   | 2.1 | 2.2   | 2.3 | 2.4   | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3   | 3.4       | 3.5      |          |
| Element (X)  | ΣX <sup>2</sup>                     |    | ΣX |    | X̄ |    | s <sub>x</sub> |    | No. Obs. |     | Mean No. of Hours with Temperature |     |       |     |       |     |       |     |       |     |       |     |       |     |     |     |     |     |     |     |     |       |           |          |          |
| Rel. Hum.    |                                     |    |    |    |    |    |                |    |          |     | ≤0 F                               |     | ≤32 F |     | ≤67 F |     | ≤73 F |     | ≤80 F |     | ≤93 F |     | Total |     |     |     |     |     |     |     |     |       |           |          |          |
| Dry Bulb     |                                     |    |    |    |    |    |                |    |          |     |                                    |     |       |     |       |     |       |     |       |     |       |     |       |     |     |     |     |     |     |     |     |       |           |          |          |
| Wet Bulb     |                                     |    |    |    |    |    |                |    |          |     |                                    |     |       |     |       |     |       |     |       |     |       |     |       |     |     |     |     |     |     |     |     |       |           |          |          |
| Dew Point    |                                     |    |    |    |    |    |                |    |          |     |                                    |     |       |     |       |     |       |     |       |     |       |     |       |     |     |     |     |     |     |     |     |       |           |          |          |

## PSYCHROMETRIC SUMMARY

1000

● **중간지점**

HOUS 2 5 1

[illegible]

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# MEANS AND STANDARD DEVIATIONS

DIURNAL TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

92037 COLORADO SPRINGS COLO-PETERSON F3 42-65

| STATION     |           | STATION NAME |        |        |        |        |        |        |       |        |        |        | YEARS  |        |  |  |  |  |  |  |  |  |  |
|-------------|-----------|--------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
| HRS. I.S.T. |           | JAN.         | FEB.   | MAR.   | APR.   | MAY    | JUN.   | JUL.   | AUG.  | SEP.   | OCT.   | NOV.   | DEC.   | ANNUAL |  |  |  |  |  |  |  |  |  |
| 00-02       | MEAN      | 23.4         | 25.8   | 29.0   | 36.5   | 47.2   | 56.4   | 61.5   | 60.3  | 53.2   | 43.3   | 31.8   | 20.3   | 41.4   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 12.377       | 11.292 | 10.888 | 9.449  | 7.530  | 6.787  | 4.675  | 4.525 | 7.459  | 11.221 | 10.412 | 10.404 | 16.299 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2168         | 1963   | 2146   | 2008   | 2076   | 2010   | 2168   | 2169  | 2168   | 2259   | 2190   | 2262   | 25639  |  |  |  |  |  |  |  |  |  |
| 03-05       | MEAN      | 23.2         | 24.8   | 27.6   | 36.5   | 45.3   | 54.0   | 59.4   | 58.3  | 51.3   | 42.3   | 31.2   | 20.0   | 40.0   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 12.468       | 11.355 | 10.890 | 9.263  | 7.430  | 6.432  | 4.672  | 4.567 | 7.655  | 10.490 | 10.709 | 10.803 | 15.852 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2170         | 1967   | 2154   | 2007   | 2076   | 2009   | 2167   | 2168  | 2192   | 2259   | 2193   | 2262   | 25676  |  |  |  |  |  |  |  |  |  |
| 06-08       | MEAN      | 23.7         | 26.3   | 30.6   | 41.7   | 52.4   | 62.5   | 67.9   | 65.6  | 57.0   | 46.7   | 33.1   | 20.9   | 44.0   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 12.691       | 11.765 | 12.051 | 10.923 | 9.851  | 9.141  | 7.647  | 7.001 | 9.956  | 10.316 | 11.150 | 10.797 | 16.766 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2169         | 1974   | 2170   | 2008   | 2075   | 2009   | 2169   | 2170  | 2191   | 2258   | 2192   | 2261   | 25643  |  |  |  |  |  |  |  |  |  |
| 09-11       | MEAN      | 34.2         | 36.5   | 40.2   | 50.4   | 60.5   | 71.3   | 77.4   | 75.7  | 67.6   | 58.0   | 43.7   | 37.3   | 54.4   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 13.854       | 13.027 | 13.211 | 12.260 | 11.284 | 10.295 | 7.245  | 7.367 | 10.996 | 11.694 | 12.741 | 12.014 | 19.239 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2169         | 1978   | 2170   | 2010   | 2077   | 2009   | 2170   | 2170  | 2190   | 2262   | 2190   | 2263   | 25694  |  |  |  |  |  |  |  |  |  |
| 12-14       | MEAN      | 37.3         | 41.5   | 45.0   | 55.0   | 64.4   | 75.3   | 80.8   | 79.3  | 72.7   | 62.8   | 46.0   | 42.2   | 58.9   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 14.428       | 13.594 | 13.759 | 12.961 | 11.547 | 10.559 | 7.492  | 7.708 | 10.705 | 11.639 | 13.229 | 12.531 | 19.135 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2170         | 1977   | 2169   | 2010   | 2077   | 2009   | 2170   | 2170  | 2190   | 2262   | 2190   | 2257   | 25651  |  |  |  |  |  |  |  |  |  |
| 15-17       | MEAN      | 36.1         | 40.3   | 44.5   | 54.9   | 63.5   | 74.5   | 78.1   | 75.9  | 71.7   | 60.5   | 44.3   | 38.0   | 56.9   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 14.109       | 13.656 | 13.823 | 13.204 | 11.616 | 10.745 | 8.708  | 8.390 | 10.549 | 11.466 | 12.602 | 12.054 | 19.419 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2169         | 1978   | 2169   | 2008   | 2076   | 2010   | 2169   | 2168  | 2169   | 2261   | 2188   | 2263   | 25648  |  |  |  |  |  |  |  |  |  |
| 18-20       | MEAN      | 27.2         | 31.6   | 36.6   | 47.4   | 56.9   | 67.7   | 71.2   | 69.2  | 62.4   | 50.4   | 35.6   | 29.6   | 48.8   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 12.490       | 11.643 | 12.206 | 11.474 | 10.178 | 9.502  | 7.154  | 6.825 | 9.112  | 9.270  | 10.495 | 10.618 | 15.810 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2169         | 1981   | 2142   | 2010   | 2077   | 2010   | 2170   | 2167  | 2185   | 2262   | 2187   | 2263   | 25603  |  |  |  |  |  |  |  |  |  |
| 21-23       | MEAN      | 24.7         | 28.0   | 32.0   | 41.7   | 51.0   | 60.8   | 65.4   | 63.6  | 56.4   | 45.3   | 32.7   | 27.0   | 44.0   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 12.450       | 11.890 | 11.136 | 9.797  | 8.248  | 7.518  | 5.117  | 5.005 | 7.886  | 8.299  | 10.038 | 10.449 | 17.182 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2169         | 1960   | 2148   | 2010   | 2075   | 2004   | 2168   | 2169  | 2189   | 2262   | 2189   | 2261   | 25604  |  |  |  |  |  |  |  |  |  |
| ALL HOURS   | MEAN      | 29.0         | 31.8   | 35.7   | 45.7   | 55.1   | 65.3   | 70.2   | 68.6  | 61.6   | 51.2   | 37.5   | 31.7   | 48.6   |  |  |  |  |  |  |  |  |  |
|             | S.D.      | 14.479       | 13.756 | 13.905 | 13.080 | 11.981 | 11.816 | 10.061 | 9.947 | 12.217 | 12.598 | 13.107 | 12.774 | 19.381 |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 17343        | 15763  | 17268  | 16072  | 16069  | 16069  | 17351  | 17331 | 17512  | 18086  | 17514  | 18092  | 40503  |  |  |  |  |  |  |  |  |  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 23601

## MEANS AND STANDARD DEVIATIONS

AIR-COLD TEMPERATURES DEG C FROM HOURLY OBSERVATIONS

93037 COLORADO SPRINGS COLN-PETERSON FD 42-68

| STATION     |           | STATION NAME |        |       |       |       |       |       |       |       |       |       |       | YEARS  |  |
|-------------|-----------|--------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| HRS. (LST.) |           | JAN.         | FEB.   | MAR.  | APR.  | MAY   | JUN.  | JUL.  | AUG.  | SEP.  | OCT.  | NOV.  | DEC.  | ANNUAL |  |
| 00-02       | MEAN      | 19.3         | 21.8   | 24.0  | 32.7  | 41.3  | 46.5  | 34.2  | 33.6  | 45.6  | 36.3  | 26.6  | 21.9  | 35.4   |  |
|             | S. D.     | 9.680        | 11.830 | 8.745 | 6.576 | 5.654 | 4.760 | 3.264 | 3.004 | 5.668 | 6.016 | 7.448 | 7.890 | 14.079 |  |
|             | TOTAL OBS | 2166         | 1763   | 2146  | 2009  | 1997  | 1977  | 2156  | 2101  | 2139  | 2250  | 2182  | 2261  | 25405  |  |
| 03-05       | MEAN      | 19.0         | 21.0   | 23.4  | 31.3  | 39.9  | 47.7  | 32.9  | 32.1  | 44.3  | 32.5  | 26.0  | 21.5  | 34.4   |  |
|             | S. D.     | 9.721        | 9.939  | 8.334 | 6.658 | 5.693 | 4.607 | 3.347 | 3.996 | 5.725 | 5.950 | 7.630 | 8.096 | 13.859 |  |
|             | TOTAL OBS | 2168         | 1763   | 2134  | 2007  | 1998  | 1976  | 2167  | 2109  | 2190  | 2251  | 2181  | 2261  | 25416  |  |
| 06-08       | MEAN      | 19.3         | 21.5   | 25.2  | 34.2  | 43.6  | 51.0  | 36.4  | 35.0  | 46.9  | 37.9  | 27.1  | 22.0  | 36.6   |  |
|             | S. D.     | 9.856        | 9.010  | 8.632 | 6.965 | 5.892 | 4.775 | 3.220 | 3.904 | 5.906 | 6.313 | 7.720 | 8.039 | 14.833 |  |
|             | TOTAL OBS | 2162         | 1778   | 2176  | 2008  | 1997  | 1775  | 2169  | 2102  | 2191  | 2249  | 2182  | 2261  | 25444  |  |
| 09-11       | MEAN      | 20.2         | 28.4   | 30.8  | 38.3  | 46.2  | 53.3  | 38.6  | 37.8  | 50.9  | 43.2  | 33.3  | 28.7  | 41.2   |  |
|             | S. D.     | 9.476        | 8.376  | 8.031 | 6.617 | 5.734 | 4.608 | 3.200 | 3.454 | 5.356 | 5.900 | 7.380 | 7.675 | 13.274 |  |
|             | TOTAL OBS | 2165         | 1778   | 2170  | 2010  | 1999  | 1978  | 2170  | 2101  | 2170  | 2253  | 2187  | 2263  | 25464  |  |
| 12-14       | MEAN      | 29.3         | 31.0   | 33.4  | 40.2  | 47.4  | 54.1  | 39.3  | 38.5  | 52.3  | 45.1  | 35.0  | 31.5  | 43.1   |  |
|             | S. D.     | 9.264        | 8.205  | 7.822 | 6.463 | 5.441 | 4.305 | 3.092 | 3.307 | 4.780 | 5.503 | 7.289 | 7.469 | 12.415 |  |
|             | TOTAL OBS | 2170         | 1973   | 2169  | 2010  | 1999  | 1983  | 2173  | 2105  | 2169  | 2254  | 2188  | 2255  | 25476  |  |
| 15-17       | MEAN      | 27.5         | 33.5   | 33.2  | 40.1  | 47.3  | 54.0  | 38.7  | 38.1  | 52.0  | 44.3  | 33.8  | 29.2  | 42.3   |  |
|             | S. D.     | 9.369        | 8.362  | 7.922 | 6.476 | 5.197 | 4.112 | 2.837 | 3.064 | 4.703 | 5.580 | 7.454 | 7.606 | 12.602 |  |
|             | TOTAL OBS | 2169         | 1978   | 2170  | 2008  | 1996  | 1983  | 2169  | 2102  | 2188  | 2252  | 2188  | 2262  | 25465  |  |
| 18-20       | MEAN      | 22.1         | 25.1   | 29.2  | 37.2  | 45.4  | 52.0  | 37.5  | 36.6  | 49.3  | 40.1  | 29.1  | 24.1  | 39.0   |  |
|             | S. D.     | 9.423        | 8.230  | 8.040 | 6.523 | 5.414 | 4.540 | 2.759 | 3.238 | 5.210 | 5.744 | 7.110 | 7.666 | 14.071 |  |
|             | TOTAL OBS | 2169         | 1961   | 2142  | 2009  | 1996  | 1983  | 2170  | 2102  | 2185  | 2253  | 2187  | 2263  | 25425  |  |
| 21-23       | MEAN      | 25.3         | 23.9   | 26.0  | 34.7  | 43.3  | 50.1  | 35.8  | 34.9  | 47.0  | 37.5  | 27.2  | 22.4  | 36.9   |  |
|             | S. D.     | 9.698        | 8.313  | 8.017 | 6.438 | 5.478 | 4.623 | 2.959 | 3.595 | 5.466 | 5.849 | 7.108 | 7.808 | 14.155 |  |
|             | TOTAL OBS | 2169         | 1959   | 2146  | 2007  | 1994  | 1979  | 2169  | 2102  | 2189  | 2254  | 2189  | 2260  | 25414  |  |
| ALL HOURS   | MEAN      | 22.9         | 25.4   | 28.3  | 36.1  | 44.3  | 51.4  | 38.7  | 38.0  | 48.5  | 40.0  | 29.6  | 25.2  | 38.6   |  |
|             | S. D.     | 10.320       | 9.353  | 8.923 | 7.310 | 6.150 | 5.158 | 3.778 | 4.143 | 6.069 | 6.843 | 8.206 | 8.639 | 14.046 |  |
|             | TOTAL OBS | 17338        | 15758  | 17269 | 16068 | 15976 | 15834 | 17351 | 16815 | 17211 | 18016 | 17484 | 18086 | 203506 |  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# MEANS AND STANDARD DEVIATIONS

VIEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93037 COLORADO SPRINGS COLD-PETERSON FD 42-66

| STATION      |           | STATION NAME |       |       |        |        |        |       |       |       |       |       |       | YEARS  |
|--------------|-----------|--------------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|
| HRS (L.S.T.) |           | JAN          | FEB.  | MAR.  | APR    | MAY    | JUN.   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
| 00-02        | MEAN      | 9.3          | 13.2  | 15.7  | 24.3   | 34.7   | 41.9   | 49.3  | 48.9  | 38.8  | 27.5  | 17.4  | 12.6  | 27.6   |
|              | S.D.      | 9.664        | 9.349 | 9.473 | 9.289  | 9.273  | 9.005  | 8.243 | 6.567 | 8.569 | 8.889 | 8.002 | 8.715 | 10.444 |
|              | TOT OBS   | 2168         | 1963  | 2146  | 2009   | 1996   | 1977   | 2169  | 2101  | 2139  | 2290  | 2187  | 2262  | 25412  |
| 03-05        | MEAN      | 8.6          | 12.2  | 14.8  | 23.3   | 33.6   | 41.2   | 48.4  | 47.7  | 37.7  | 26.6  | 16.5  | 11.2  | 26.7   |
|              | S.D.      | 9.669        | 9.363 | 9.453 | 9.395  | 9.289  | 8.701  | 8.002 | 6.501 | 8.590 | 8.940 | 8.268 | 8.980 | 16.407 |
|              | TOTAL OBS | 2170         | 1967  | 2154  | 2007   | 1998   | 1976   | 2167  | 2099  | 2190  | 2231  | 2181  | 2262  | 25422  |
| 06-08        | MEAN      | 8.4          | 12.1  | 15.0  | 24.0   | 34.0   | 42.1   | 49.2  | 48.0  | 36.2  | 27.1  | 15.8  | 11.3  | 27.1   |
|              | S.D.      | 9.825        | 9.395 | 9.266 | 9.095  | 9.623  | 8.588  | 6.414 | 6.872 | 8.441 | 8.964 | 8.244 | 8.949 | 16.629 |
|              | TOTAL OBS | 2163         | 1979  | 2170  | 2008   | 1997   | 1975   | 2169  | 2102  | 2191  | 2248  | 2182  | 2261  | 25445  |
| 09-11        | MEAN      | 11.5         | 13.8  | 15.8  | 23.1   | 31.9   | 39.4   | 47.2  | 46.2  | 37.0  | 27.1  | 16.3  | 13.8  | 27.0   |
|              | S.D.      | 9.377        | 9.114 | 9.047 | 9.729  | 10.751 | 10.144 | 8.082 | 8.132 | 9.777 | 9.340 | 8.058 | 8.736 | 15.486 |
|              | TOTAL OBS | 2165         | 1978  | 2170  | 2010   | 1999   | 1978   | 2170  | 2101  | 2190  | 2252  | 2187  | 2263  | 25463  |
| 12-14        | MEAN      | 12.0         | 14.1  | 16.0  | 22.2   | 30.8   | 37.2   | 45.8  | 44.8  | 35.6  | 26.4  | 16.4  | 14.1  | 26.1   |
|              | S.D.      | 9.571        | 9.191 | 9.171 | 10.236 | 11.053 | 10.987 | 8.446 | 8.860 | 9.349 | 9.820 | 8.422 | 8.896 | 15.064 |
|              | TOTAL OBS | 2170         | 1978  | 2169  | 2010   | 1999   | 1983   | 2170  | 2165  | 2189  | 2254  | 2185  | 2236  | 25471  |
| 15-17        | MEAN      | 12.2         | 14.5  | 15.4  | 22.2   | 31.3   | 37.6   | 46.4  | 45.6  | 35.9  | 26.9  | 19.0  | 14.2  | 26.7   |
|              | S.D.      | 9.429        | 9.044 | 9.586 | 10.411 | 10.942 | 11.109 | 8.462 | 8.830 | 9.407 | 9.573 | 8.197 | 8.682 | 15.181 |
|              | TOTAL OBS | 2169         | 1978  | 2170  | 2008   | 1996   | 1983   | 2169  | 2102  | 2188  | 2252  | 2188  | 2263  | 25460  |
| 18-20        | MEAN      | 11.0         | 14.6  | 16.9  | 24.2   | 33.9   | 40.4   | 48.9  | 48.3  | 38.3  | 28.1  | 18.1  | 13.0  | 27.9   |
|              | S.D.      | 9.821        | 9.003 | 9.417 | 9.768  | 10.485 | 10.163 | 7.204 | 7.488 | 8.824 | 9.140 | 7.933 | 8.541 | 15.919 |
|              | TOTAL OBS | 2169         | 1981  | 2143  | 2009   | 1996   | 1983   | 2170  | 2162  | 2185  | 2253  | 2187  | 2263  | 25421  |
| 21-23        | MEAN      | 16.2         | 14.0  | 16.7  | 25.0   | 35.1   | 42.0   | 49.6  | 49.0  | 38.7  | 27.9  | 17.9  | 12.4  | 28.1   |
|              | S.D.      | 9.815        | 9.093 | 9.408 | 9.435  | 9.836  | 9.339  | 6.184 | 6.910 | 8.599 | 8.949 | 7.925 | 8.625 | 16.790 |
|              | TOTAL OBS | 2169         | 1960  | 2147  | 2007   | 1994   | 1978   | 2168  | 2107  | 2189  | 2254  | 2189  | 2260  | 25417  |
| ALL HOURS    | MEAN      | 10.4         | 13.6  | 15.9  | 23.3   | 33.1   | 40.2   | 48.1  | 47.3  | 37.3  | 27.2  | 17.9  | 12.8  | 27.2   |
|              | S.D.      | 9.721        | 9.237 | 9.369 | 9.686  | 10.268 | 9.471  | 7.324 | 7.717 | 8.773 | 9.223 | 8.173 | 8.839 | 15.947 |
|              | TOTAL OBS | 17343        | 13764 | 17269 | 16068  | 15975  | 15833  | 17352 | 16814 | 17511 | 18014 | 17484 | 17090 | 203517 |

## RELATIVE HUMIDITY

JAN  
MONIN

| MONTH  | HOURS<br>(LST.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |       |
|--------|-----------------|--|------|------|------|------|------|------|------|------------------------------|-----------------------|-------|
|        |                 | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  |                              |                       | 90%   |
| JAN    | 00-02           | 97.9   | 97.7 | 90.1 | 78.0 | 64.2 | 48.9 | 32.9 | 16.0 | 4.7                          | 58.7                  | 2168  |
|        | 03-05           | 99.7   | 97.6 | 90.0 | 76.9 | 61.7 | 45.9 | 31.2 | 15.5 | 4.3                          | 57.7                  | 2170  |
|        | 06-08           | 99.8   | 97.5 | 88.8 | 73.6 | 57.3 | 42.1 | 28.1 | 13.5 | 3.7                          | 55.9                  | 2163  |
|        | 09-11           | 98.6   | 87.9 | 68.1 | 48.1 | 34.9 | 25.3 | 16.0 | 8.2  | 2.0                          | 44.4                  | 2165  |
|        | 12-14           | 75.3   | 77.1 | 56.6 | 39.7 | 27.7 | 18.5 | 11.0 | 4.5  | 1.3                          | 39.7                  | 2170  |
|        | 15-17           | 97.6   | 82.6 | 65.7 | 49.6 | 35.2 | 24.2 | 14.4 | 6.9  | 1.7                          | 43.3                  | 2169  |
|        | 18-20           | 99.5   | 95.1 | 85.4 | 72.0 | 57.9 | 42.6 | 26.2 | 12.3 | 3.0                          | 54.8                  | 2169  |
|        | 21-23           | 99.7   | 96.8 | 89.9 | 76.8 | 64.8 | 49.2 | 31.6 | 14.0 | 3.6                          | 58.0                  | 2169  |
|        |                 |  |      |      |      |      |      |      |      |                              |                       |       |
|        |                 |  |      |      |      |      |      |      |      |                              |                       |       |
|        |                 |  |      |      |      |      |      |      |      |                              |                       |       |
|        |                 |  |      |      |      |      |      |      |      |                              |                       |       |
| TOTALS |                 | 98.7   | 91.5 | 79.3 | 64.3 | 50.5 | 37.1 | 23.9 | 11.4 | 3.1                          | 51.4                  | 17343 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# RELATIVE HUMIDITY

93037  
STATION

COLORADO SPRINGS COLO-PETERSON FD  
STATION NAME

43-68  
PERIOD

FEB  
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|-----|------------------------------|------------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |                              |                        |
| FEB    | 00-02          | 99.9   | 98.3 | 92.4 | 83.3 | 70.6 | 56.6 | 40.6 | 23.0 | 8.8 | 62.5                         | 1963                   |
|        | 03-05          | 99.9   | 98.2 | 92.7 | 83.1 | 70.1 | 55.0 | 40.2 | 22.2 | 9.6 | 62.5                         | 1967                   |
|        | 06-08          | 99.7   | 97.6 | 90.6 | 76.7 | 63.0 | 48.4 | 34.5 | 18.8 | 8.7 | 59.3                         | 1979                   |
|        | 09-11          | 98.0   | 86.5 | 66.9 | 51.0 | 37.0 | 25.7 | 16.5 | 9.3  | 3.4 | 49.0                         | 1976                   |
|        | 12-14          | 96.1   | 75.1 | 53.9 | 40.4 | 29.0 | 18.9 | 12.1 | 6.4  | 2.2 | 38.9                         | 1977                   |
|        | 15-17          | 97.5   | 78.4 | 57.8 | 43.4 | 32.7 | 23.9 | 15.4 | 7.9  | 3.0 | 41.5                         | 1973                   |
|        | 18-20          | 99.8   | 95.1 | 81.8 | 67.7 | 53.8 | 42.5 | 28.5 | 16.2 | 5.1 | 54.5                         | 1961                   |
|        | 21-23          | 99.8   | 97.4 | 91.1 | 77.1 | 64.0 | 51.0 | 37.3 | 20.4 | 8.1 | 60.1                         | 1960                   |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
| TOTALS |                | 98.9   | 90.8 | 78.4 | 65.3 | 52.5 | 40.2 | 28.1 | 15.5 | 6.1 | 53.1                         | 15763                  |

## RELATIVE HUMIDITY

雜誌

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|-----|------------------------------|-----------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |                              |                       |
| MAR    | 00-02          | 97.9   | 97.3 | 89.5 | 78.2 | 67.6 | 56.3 | 43.2 | 25.3 | 9.5 | 62.2                         | 2145                  |
|        | 03-05          | 97.9   | 97.7 | 90.4 | 80.4 | 69.3 | 58.8 | 46.2 | 25.8 | 9.1 | 61.3                         | 2154                  |
|        | 06-08          | 97.5   | 95.6 | 85.3 | 71.8 | 59.4 | 47.3 | 34.3 | 20.0 | 6.9 | 57.5                         | 2170                  |
|        | 09-11          | 97.5   | 81.4 | 63.6 | 47.3 | 35.9 | 25.2 | 16.2 | 8.6  | 2.4 | 43.4                         | 2173                  |
|        | 12-14          | 94.4   | 70.8 | 52.5 | 38.5 | 27.4 | 20.1 | 12.4 | 5.9  | 1.8 | 37.9                         | 2169                  |
|        | 15-17          | 94.3   | 70.7 | 53.0 | 40.0 | 29.4 | 21.8 | 14.8 | 7.4  | 2.9 | 38.9                         | 2169                  |
|        | 18-20          | 99.0   | 88.8 | 74.7 | 60.9 | 49.3 | 38.1 | 27.2 | 14.0 | 5.0 | 51.2                         | 2142                  |
|        | 21-23          | 99.7   | 96.0 | 85.1 | 72.5 | 61.0 | 49.2 | 35.7 | 21.4 | 7.7 | 58.4                         | 2147                  |
|        |                |  |      |      |      |      |      |      |      |     |                              |                       |
|        |                |  |      |      |      |      |      |      |      |     |                              |                       |
|        |                |  |      |      |      |      |      |      |      |     |                              |                       |
|        |                |  |      |      |      |      |      |      |      |     |                              |                       |
| TOTALS |                | 98.0   | 87.3 | 74.2 | 61.2 | 49.8 | 39.5 | 28.7 | 16.0 | 5.7 | 51.6                         | 17267                 |

5



C

2

2

1  
2  
3  
4  
5

2

1



## RELATIVE HUMIDITY



| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|------|------------------------------|-----------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                       |
| MAY    | 00-02          | 99.8   | 97.2 | 90.3 | 83.1 | 75.8 | 64.0 | 50.0 | 32.8 | 14.3 | 66.2                         | 1996                  |
|        | 03-05          | 99.8   | 97.7 | 92.1 | 84.2 | 76.2 | 66.4 | 54.5 | 38.6 | 16.9 | 68.0                         | 1996                  |
|        | 06-08          | 98.9   | 92.3 | 80.4 | 68.0 | 56.0 | 42.9 | 30.5 | 18.3 | 9.5  | 55.4                         | 1997                  |
|        | 09-11          | 95.0   | 76.8 | 57.1 | 42.8 | 30.5 | 21.2 | 13.9 | 9.0  | 4.5  | 40.7                         | 1999                  |
|        | 12-14          | 90.7   | 63.6 | 44.9 | 32.7 | 23.7 | 16.5 | 10.0 | 5.7  | 2.1  | 34.7                         | 1999                  |
|        | 15-17          | 92.0   | 67.3 | 48.9 | 35.9 | 27.5 | 20.4 | 13.9 | 7.0  | 2.1  | 37.1                         | 1996                  |
|        | 18-20          | 97.4   | 84.6 | 69.6 | 56.9 | 45.4 | 34.7 | 24.7 | 14.0 | 4.8  | 48.8                         | 1996                  |
|        | 21-23          | 97.5   | 94.1 | 85.4 | 74.7 | 64.3 | 51.3 | 38.0 | 23.5 | 10.0 | 59.8                         | 1994                  |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
| TOTALS |                | 96.7   | 84.3 | 71.1 | 59.8 | 49.7 | 39.7 | 29.5 | 18.4 | 8.0  | 51.3                         | 15975                 |

## RELATIVE HUMIDITY

JUN  
1964

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|------|------------------------------|-----------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                       |
| JUL    | 00-02          | 99.8   | 96.3 | 89.5 | 81.7 | 71.7 | 57.6 | 42.3 | 25.4 | 9.5  | 63.0                         | 1977                  |
|        | 03-05          | 99.9   | 97.6 | 91.8 | 84.2 | 76.0 | 64.5 | 50.4 | 30.7 | 11.9 | 66.3                         | 1976                  |
|        | 06-08          | 99.2   | 93.1 | 80.5 | 66.5 | 52.2 | 37.7 | 24.2 | 12.9 | 5.0  | 52.7                         | 1975                  |
|        | 09-11          | 95.0   | 75.2 | 55.1 | 38.8 | 25.4 | 15.0 | 7.9  | 3.8  | 1.8  | 37.2                         | 1978                  |
|        | 12-14          | 88.7   | 60.1 | 41.4 | 27.4 | 17.7 | 10.1 | 5.4  | 3.0  | 1.0  | 31.0                         | 1983                  |
|        | 15-17          | 86.3   | 63.7 | 43.5 | 30.7 | 20.2 | 12.9 | 7.5  | 4.1  | 1.1  | 32.8                         | 1983                  |
|        | 18-20          | 96.6   | 81.8 | 64.3 | 47.9 | 35.7 | 24.6 | 15.3 | 6.8  | 1.3  | 43.0                         | 1983                  |
|        | 21-23          | 99.4   | 93.8 | 83.1 | 71.1 | 58.7 | 43.0 | 28.8 | 15.4 | 4.9  | 55.3                         | 1978                  |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
|        |                |  |      |      |      |      |      |      |      |      |                              |                       |
| TOTALS |                | 95.9   | 82.7 | 68.6 | 56.0 | 44.4 | 33.1 | 22.8 | 12.7 | 4.5  | 47.7                         | 15833                 |

## RELATIVE HUMIDITY

93037  
STATO

COLORADO SPRINGS COLO.-PETERSON FD 43-68  
STATION NAME

$\frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d}{dt} \right)$

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST. | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|---------------|--|------|------|------|------|------|------|------|------|------------------------------|-----------------------|
|        |               | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                       |
| JUL    | 00-02         | 100.0  | 99.4 | 98.2 | 92.4 | 81.0 | 64.1 | 44.5 | 29.7 | 7.1  | 66.9                         | 2168                  |
|        | 03-05         | 100.0  | 99.5 | 97.8 | 92.5 | 84.2 | 69.9 | 51.7 | 33.5 | 10.3 | 69.6                         | 2167                  |
|        | 06-08         | 99.9   | 97.2 | 88.7 | 75.6 | 58.7 | 39.3 | 22.3 | 10.6 | 2.4  | 59.0                         | 2169                  |
|        | 09-11         | 95.5   | 85.6 | 63.3 | 40.3 | 22.5 | 11.5 | 4.5  | 1.6  | .4   | 38.3                         | 2170                  |
|        | 12-14         | 97.1   | 76.0 | 45.9 | 27.4 | 15.7 | 8.1  | 3.5  | 1.4  | .3   | 33.1                         | 2170                  |
|        | 15-17         | 97.9   | 78.1 | 54.4 | 36.0 | 25.2 | 16.0 | 8.7  | 4.1  | 1.1  | 37.8                         | 2169                  |
|        | 18-20         | 99.7   | 93.5 | 80.0 | 62.8 | 45.6 | 32.3 | 18.8 | 8.9  | 1.7  | 49.8                         | 2170                  |
|        | 21-23         | 100.0  | 99.2 | 94.5 | 83.8 | 66.4 | 48.2 | 31.9 | 17.0 | 3.8  | 60.0                         | 2166                  |
| TOTALS |               | 99.1   | 91.1 | 77.6 | 64.1 | 49.9 | 36.1 | 23.2 | 12.8 | 3.4  | 51.3                         | 17351                 |

5

( )

C C

C

C

**DATA ANALYSIS AND RESULTS**

C

57

|         |                                   |        |       |
|---------|-----------------------------------|--------|-------|
| 93037   | COLORADO SPRINGS COLO-PETERSON FD | 42-68  | SEP   |
| STATION | STATION NAME                      | PERIOD | MONTH |

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

(C) Copyright 1980 by McGraw-Hill Inc.

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# RELATIVE HUMIDITY

93037

STATION

COLORADO SPRINGS COLO-PETERSON FD

STATION NAME

42-68

PERIOD

OCT

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|-----|------------------------------|-----------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |                              |                       |
| OCT    | 00-02          | 99.9   | 97.4 | 88.7 | 76.0 | 60.7 | 44.4 | 29.7 | 15.8 | 8.7 | 58.0                         | 2250                  |
|        | 03-05          | 99.8   | 97.0 | 87.8 | 74.6 | 59.4 | 46.3 | 32.6 | 21.1 | 9.3 | 58.4                         | 2251                  |
|        | 06-08          | 99.6   | 92.8 | 78.1 | 61.9 | 46.9 | 34.5 | 25.3 | 13.9 | 8.5 | 52.0                         | 2248                  |
|        | 09-11          | 96.1   | 74.0 | 48.0 | 32.7 | 22.9 | 13.9 | 11.3 | 6.9  | 3.2 | 36.3                         | 2252                  |
|        | 12-14          | 91.8   | 60.2 | 34.6 | 22.7 | 15.5 | 10.8 | 7.5  | 4.3  | 1.8 | 30.5                         | 2254                  |
|        | 15-17          | 94.0   | 67.8 | 41.3 | 26.8 | 18.5 | 13.6 | 9.1  | 5.3  | 2.8 | 33.4                         | 2252                  |
|        | 18-20          | 99.8   | 91.8 | 72.8 | 53.5 | 36.8 | 26.0 | 18.3 | 10.5 | 4.1 | 46.9                         | 2253                  |
|        | 21-23          | 100.0  | 96.9 | 86.0 | 70.7 | 52.5 | 37.1 | 25.9 | 13.9 | 6.4 | 54.7                         | 2254                  |
|        |                |  |      |      |      |      |      |      |      |     |                              |                       |
| TOTALS |                | 97.8   | 84.7 | 67.1 | 52.3 | 39.1 | 28.6 | 20.0 | 12.3 | 3.6 | 46.3                         | 18014                 |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C. 28801

# RELATIVE HUMIDITY

93037  
STATION

COLORADO SPRINGS GOLD-PETERSON F0  
STATION NAME

42-65  
PERIOD

NDV  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|-----|------------------------------|------------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |                              |                        |
| NDV    | 00-02          | 99.7   | 97.5 | 90.7 | 79.1 | 64.3 | 49.2 | 34.1 | 18.1 | 6.8 | 59.4                         | 2182                   |
|        | 03-05          | 99.7   | 97.2 | 89.0 | 76.3 | 62.8 | 48.2 | 33.6 | 18.6 | 6.9 | 58.8                         | 2181                   |
|        | 06-08          | 99.8   | 96.6 | 85.4 | 70.9 | 56.7 | 42.6 | 29.5 | 15.5 | 6.0 | 59.7                         | 2182                   |
|        | 09-11          | 98.8   | 81.2 | 61.0 | 45.5 | 32.3 | 21.5 | 14.1 | 8.5  | 3.5 | 42.1                         | 2187                   |
|        | 12-14          | 95.9   | 73.0 | 50.2 | 35.6 | 24.1 | 15.9 | 10.0 | 5.9  | 2.5 | 36.7                         | 2188                   |
|        | 15-17          | 97.9   | 83.2 | 62.3 | 45.2 | 31.7 | 22.4 | 13.7 | 7.4  | 3.2 | 42.1                         | 2188                   |
|        | 18-20          | 99.9   | 96.2 | 84.6 | 75.3 | 64.8 | 59.0 | 53.6 | 42.5 | 4.8 | 34.2                         | 2187                   |
|        | 21-23          | 100.0  | 97.6 | 89.4 | 78.2 | 63.8 | 47.7 | 30.2 | 16.4 | 5.9 | 59.4                         | 2189                   |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
|        |                |  |      |      |      |      |      |      |      |     |                              |                        |
| TOTALS |                | 99.0   | 90.3 | 76.6 | 62.6 | 48.8 | 35.8 | 23.6 | 12.9 | 4.9 | 50.9                         | 17484                  |

## RELATIVE HUMIDITY

2/15

| MONTH  | HOURS<br>ILST. | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--|------|------|------|------|------|------|------|-----|------------------------------|-------------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |                              |                         |
| DEC    | 00-02          | 99.8   | 97.6 | 90.3 | 78.0 | 63.5 | 47.8 | 31.2 | 15.9 | 5.6 | 58.4                         | 2262                    |
|        | 03-05          | 99.7   | 96.6 | 89.7 | 76.0 | 61.0 | 45.1 | 30.3 | 15.5 | 6.1 | 57.5                         | 2262                    |
|        | 06-08          | 99.7   | 97.2 | 88.4 | 73.5 | 56.8 | 41.9 | 29.6 | 14.2 | 4.6 | 56.0                         | 2261                    |
|        | 09-11          | 98.4   | 85.7 | 66.2 | 46.8 | 33.6 | 22.7 | 12.8 | 7.5  | 2.5 | 43.2                         | 2263                    |
|        | 12-14          | 95.9   | 75.5 | 54.2 | 37.3 | 24.4 | 16.1 | 8.6  | 4.2  | 1.4 | 37.4                         | 2258                    |
|        | 15-17          | 95.1   | 84.8 | 65.3 | 48.9 | 35.2 | 22.1 | 11.9 | 5.8  | 1.7 | 42.9                         | 2263                    |
|        | 18-20          | 99.7   | 95.4 | 84.8 | 70.8 | 55.2 | 39.6 | 24.6 | 10.2 | 2.9 | 55.8                         | 2263                    |
|        | 21-23          | 99.7   | 97.5 | 90.3 | 76.8 | 63.3 | 47.7 | 30.0 | 13.7 | 5.0 | 57.4                         | 2260                    |
| TOTALS |                | 98.9   | 91.5 | 78.6 | 63.5 | 49.1 | 35.4 | 22.4 | 10.9 | 3.7 | 50.9                         | 16090                   |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N.C., 28801

# RELATIVE HUMIDITY

93037

COLORADO SPRINGS COLG-PETERSON FD

42-58

ALL

STATION

STATION NAME

PER OD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|--------|----------------|--|------|------|------|------|------|------|------|-----|------------------------------|------------------------|
|        |                | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |                              |                        |
| JAN    | ALL            | 98.7   | 91.5 | 79.3 | 64.3 | 50.3 | 37.1 | 23.9 | 11.4 | 3.1 | 51.4                         | 17343                  |
| FEB    |                | 98.9   | 90.8 | 78.4 | 65.3 | 52.5 | 40.2 | 28.1 | 15.5 | 6.1 | 53.1                         | 15763                  |
| MAR    |                | 98.0   | 87.3 | 74.2 | 61.2 | 49.8 | 39.5 | 28.7 | 16.0 | 5.7 | 51.6                         | 17261                  |
| APR    |                | 96.5   | 83.8 | 69.6 | 57.1 | 46.4 | 36.6 | 27.0 | 16.8 | 7.7 | 49.7                         | 16063                  |
| MAY    |                | 96.7   | 84.5 | 71.1 | 59.8 | 49.7 | 39.7 | 29.5 | 18.4 | 8.0 | 51.3                         | 15975                  |
| JUN    |                | 95.9   | 82.7 | 68.6 | 56.0 | 44.4 | 34.1 | 22.8 | 12.7 | 4.5 | 47.7                         | 15833                  |
| JUL    |                | 99.1   | 91.1 | 77.5 | 64.1 | 49.9 | 36.1 | 23.2 | 12.8 | 3.4 | 51.3                         | 17351                  |
| AUG    |                | 99.2   | 92.2 | 78.6 | 65.0 | 51.0 | 37.8 | 25.0 | 14.4 | 4.9 | 52.4                         | 16813                  |
| SEP    |                | 98.0   | 85.7 | 70.3 | 55.7 | 42.3 | 30.9 | 21.3 | 12.5 | 5.3 | 47.8                         | 17511                  |
| OCT    |                | 97.6   | 84.7 | 67.1 | 52.3 | 39.1 | 28.6 | 20.0 | 12.3 | 5.6 | 46.3                         | 18014                  |
| NOV    |                | 99.0   | 90.3 | 76.6 | 62.6 | 48.8 | 35.8 | 23.6 | 12.9 | 4.9 | 50.9                         | 17484                  |
| DEC    |                | 98.9   | 91.5 | 78.6 | 63.5 | 49.1 | 33.4 | 22.4 | 10.9 | 3.7 | 50.9                         | 18090                  |
| TOTALS |                | 98.1   | 88.1 | 74.2 | 60.6 | 47.8 | 35.8 | 24.5 | 13.8 | 5.2 | 50.320                       | 3512                   |

DATA PROCESSING DIVISION  
ETAC/USAF  
AIR WEATHER SERVICE (MAC)  
ASHEVILLE, NORTH CAROLINA

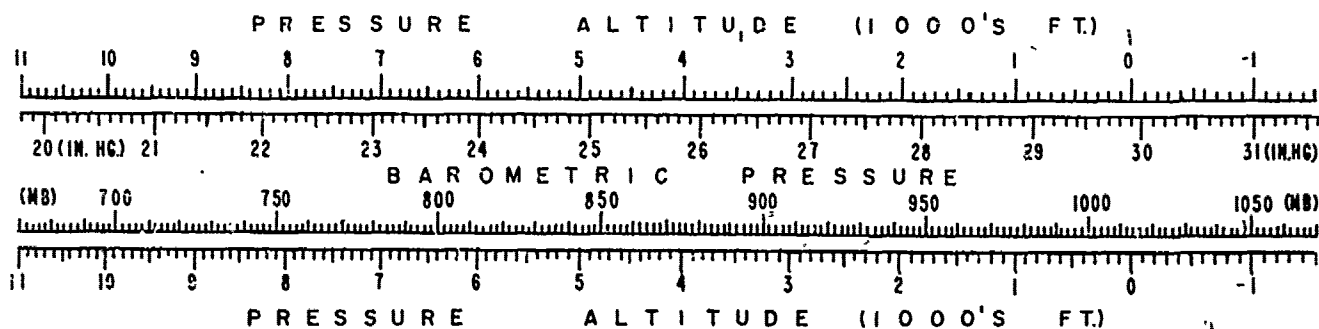
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

93037 COLORADO SPRINGS GOLD-PETERSON PD 48-58

| STATION   |           | STATION NAME |         |         |         |         |         |         |         |         |         |         |         | YEARS  |  |
|-----------|-----------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--|
| HRS (LST) |           | JAN          | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP     | OCT     | NOV     | DEC     | ANNUAL |  |
| 02        | MEAN      | 23.8702      | 23.8652 | 23.8312 | 23.8742 | 23.9242 | 23.9712 | 24.0712 | 24.0692 | 24.0362 | 24.0632 | 23.9392 | 23.891  | 23.940 |  |
|           | S. D.     | .187         | .170    | .176    | .178    | .148    | .115    | .080    | .093    | .120    | .156    | .181    | .197    | .174   |  |
|           | TOTAL OBS | 712          | 645     | 705     | 660     | 682     | 660     | 713     | 713     | 690     | 712     | 690     | 713     | 6295   |  |
| 05        | MEAN      | 23.8592      | 23.8642 | 23.8262 | 23.8752 | 23.9312 | 23.9522 | 24.0742 | 24.0692 | 24.0392 | 24.0642 | 23.9342 | 23.880  | 23.945 |  |
|           | S. D.     | .185         | .174    | .173    | .176    | .146    | .115    | .083    | .097    | .117    | .155    | .180    | .195    | .175   |  |
|           | TOTAL OBS | 713          | 650     | 713     | 660     | 682     | 660     | 712     | 713     | 690     | 710     | 690     | 713     | 6306   |  |
| 08        | MEAN      | 23.8832      | 23.8742 | 23.8512 | 23.8732 | 23.9442 | 23.9942 | 24.0862 | 24.0872 | 24.0662 | 24.0552 | 23.9562 | 23.902  | 23.945 |  |
|           | S. D.     | .183         | .173    | .173    | .181    | .148    | .117    | .083    | .088    | .117    | .155    | .182    | .198    | .176   |  |
|           | TOTAL OBS | 713          | 650     | 713     | 660     | 682     | 660     | 712     | 713     | 690     | 709     | 690     | 713     | 6305   |  |
| 11        | MEAN      | 23.8662      | 23.8752 | 23.8372 | 23.8782 | 23.9252 | 23.9742 | 24.0772 | 24.0792 | 24.0424 | 24.0132 | 23.9482 | 23.903  | 23.950 |  |
|           | S. D.     | .187         | .177    | .178    | .182    | .150    | .120    | .083    | .091    | .120    | .158    | .184    | .195    | .175   |  |
|           | TOTAL OBS | 712          | 650     | 713     | 660     | 682     | 660     | 713     | 713     | 690     | 712     | 690     | 713     | 6308   |  |
| 14        | MEAN      | 23.8372      | 23.8262 | 23.7932 | 23.8392 | 23.8912 | 23.9402 | 24.0492 | 24.0492 | 24.0492 | 24.0002 | 23.9652 | 23.9052 | 23.913 |  |
|           | S. D.     | .185         | .174    | .175    | .179    | .150    | .123    | .086    | .094    | .124    | .158    | .183    | .198    | .170   |  |
|           | TOTAL OBS | 713          | 649     | 713     | 660     | 682     | 660     | 713     | 713     | 690     | 713     | 690     | 713     | 6309   |  |
| 17        | MEAN      | 23.8622      | 23.8402 | 23.8012 | 23.8362 | 23.8822 | 23.9252 | 24.0412 | 24.0402 | 23.9972 | 23.9762 | 23.9252 | 23.879  | 23.915 |  |
|           | S. D.     | .181         | .169    | .171    | .176    | .149    | .126    | .086    | .096    | .124    | .156    | .180    | .194    | .173   |  |
|           | TOTAL OBS | 713          | 649     | 713     | 660     | 681     | 660     | 713     | 713     | 690     | 712     | 689     | 713     | 6306   |  |
| 20        | MEAN      | 23.8822      | 23.8772 | 23.8412 | 23.8752 | 23.9192 | 23.9562 | 24.0692 | 24.0702 | 24.0352 | 24.0112 | 23.9502 | 23.901  | 23.950 |  |
|           | S. D.     | .182         | .174    | .173    | .178    | .147    | .123    | .088    | .096    | .124    | .157    | .182    | .197    | .177   |  |
|           | TOTAL OBS | 713          | 644     | 706     | 660     | 682     | 660     | 713     | 712     | 689     | 712     | 690     | 713     | 6294   |  |
| 23        | MEAN      | 23.8892      | 23.8732 | 23.8462 | 23.8382 | 23.9392 | 23.9822 | 24.0872 | 24.0812 | 24.0432 | 24.0102 | 23.9482 | 23.901  | 23.958 |  |
|           | S. D.     | .185         | .169    | .175    | .177    | .148    | .123    | .087    | .096    | .123    | .159    | .182    | .198    | .175   |  |
|           | TOTAL OBS | 713          | 644     | 705     | 660     | 681     | 656     | 713     | 713     | 690     | 713     | 690     | 713     | 6291   |  |
| ALL HOURS | MEAN      | 23.8712      | 23.8632 | 23.8282 | 23.8702 | 23.9192 | 23.9652 | 24.0702 | 24.0682 | 24.0312 | 24.0622 | 23.9382 | 23.889  | 23.944 |  |
|           | S. D.     | .185         | .173    | .175    | .179    | .149    | .123    | .087    | .094    | .123    | .157    | .182    | .195    | .174   |  |
|           | TOTAL OBS | 9702         | 5181    | 5681    | 5280    | 5454    | 5276    | 5702    | 5703    | 5519    | 5693    | 5519    | 5704    | 65414  |  |

DATA PROCESSING DIVISION  
ETAC, USAF  
ASHEVILLE, N. C. 28801

# MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN HGS FROM HOURLY OBSERVATIONS

93037 COLORADO SPRINGS COL3-PETERSON FD 46-68

| STATION   |           | STATION NAME |        |        |        |        |        |        |        |        |        |        |        | YEARS  |  |
|-----------|-----------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| HRS (LST) |           | JAN.         | FEB.   | MAR.   | APR.   | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANNUAL |  |
| 02        | MEAN      | 1018.4       | 1017.5 | 1014.9 | 1013.4 | 1012.8 | 1011.3 | 1014.6 | 1014.9 | 1015.3 | 1016.9 | 1018.5 | 1019.3 | 1019.6 |  |
|           | S. D.     | 9.517        | 8.343  | 9.167  | 9.056  | 7.199  | 5.886  | 6.341  | 4.577  | 5.998  | 7.858  | 7.027  | 9.635  | 8.067  |  |
|           | TOTAL OBS | 712          | 645    | 705    | 660    | 682    | 660    | 712    | 713    | 690    | 711    | 690    | 713    | 6244   |  |
| 03        | MEAN      | 1019.0       | 1018.0 | 1019.2 | 1014.1 | 1013.6 | 1012.7 | 1015.4 | 1015.6 | 1016.0 | 1017.6 | 1019.6 | 1019.1 | 1016.4 |  |
|           | S. D.     | 9.358        | 8.294  | 8.951  | 8.913  | 7.069  | 5.688  | 4.213  | 4.356  | 4.841  | 7.752  | 8.518  | 9.510  | 7.934  |  |
|           | TOTAL OBS | 713          | 650    | 713    | 660    | 682    | 660    | 712    | 713    | 690    | 710    | 690    | 713    | 6304   |  |
| 06        | MEAN      | 1020.9       | 1017.6 | 1016.5 | 1014.8 | 1013.8 | 1012.9 | 1015.4 | 1015.7 | 1015.7 | 1018.2 | 1020.3 | 1020.7 | 1017.3 |  |
|           | S. D.     | 9.310        | 8.244  | 8.927  | 8.938  | 7.106  | 5.704  | 4.314  | 4.361  | 5.761  | 7.737  | 8.667  | 9.463  | 7.906  |  |
|           | TOTAL OBS | 713          | 650    | 713    | 660    | 682    | 660    | 712    | 713    | 690    | 707    | 690    | 713    | 6303   |  |
| 11        | MEAN      | 1019.4       | 1018.2 | 1015.4 | 1013.8 | 1012.6 | 1011.7 | 1014.5 | 1015.1 | 1015.7 | 1017.3 | 1019.2 | 1019.0 | 1015.7 |  |
|           | S. D.     | 9.180        | 8.354  | 8.891  | 8.981  | 7.103  | 5.789  | 4.229  | 4.432  | 5.875  | 7.726  | 8.658  | 9.443  | 8.065  |  |
|           | TOTAL OBS | 713          | 650    | 711    | 660    | 682    | 660    | 713    | 713    | 690    | 712    | 690    | 713    | 6307   |  |
| 14        | MEAN      | 1016.9       | 1015.6 | 1013.3 | 1011.9 | 1011.3 | 1010.4 | 1013.6 | 1014.0 | 1013.5 | 1015.2 | 1017.1 | 1016.8 | 1014.7 |  |
|           | S. D.     | 9.243        | 8.204  | 8.823  | 8.879  | 7.230  | 5.950  | 4.348  | 4.559  | 5.941  | 7.789  | 8.772  | 9.70   | 7.919  |  |
|           | TOTAL OBS | 713          | 649    | 712    | 660    | 682    | 660    | 713    | 713    | 689    | 712    | 690    | 713    | 6306   |  |
| 17        | MEAN      | 1019.1       | 1017.2 | 1014.2 | 1012.4 | 1011.4 | 1010.2 | 1014.0 | 1014.3 | 1014.2 | 1016.6 | 1019.3 | 1019.1 | 1015.2 |  |
|           | S. D.     | 9.046        | 7.997  | 8.700  | 8.788  | 7.246  | 6.177  | 4.442  | 4.623  | 5.929  | 7.740  | 8.662  | 9.348  | 8.123  |  |
|           | TOTAL OBS | 713          | 649    | 712    | 660    | 682    | 660    | 713    | 713    | 690    | 711    | 689    | 713    | 6305   |  |
| 20        | MEAN      | 1021.0       | 1019.3 | 1018.2 | 1014.1 | 1012.7 | 1011.1 | 1014.6 | 1015.2 | 1015.9 | 1018.1 | 1020.6 | 1020.7 | 1016.7 |  |
|           | S. D.     | 9.251        | 8.116  | 8.890  | 8.919  | 7.291  | 6.139  | 4.543  | 4.666  | 6.129  | 7.953  | 8.744  | 9.528  | 8.323  |  |
|           | TOTAL OBS | 713          | 644    | 706    | 660    | 682    | 659    | 713    | 711    | 688    | 712    | 689    | 713    | 6290   |  |
| 23        | MEAN      | 1019.3       | 1018.2 | 1015.6 | 1014.1 | 1013.2 | 1012.6 | 1014.9 | 1015.2 | 1015.7 | 1017.4 | 1019.2 | 1019.2 | 1016.2 |  |
|           | S. D.     | 9.407        | 8.194  | 9.123  | 9.043  | 7.257  | 6.045  | 4.438  | 4.696  | 6.197  | 7.956  | 9.011  | 9.604  | 8.127  |  |
|           | TOTAL OBS | 713          | 643    | 705    | 660    | 681    | 656    | 713    | 713    | 690    | 713    | 690    | 713    | 6296   |  |
| ALL HOURS | MEAN      | 1019.2       | 1018.6 | 1015.2 | 1013.6 | 1012.7 | 1011.6 | 1014.6 | 1015.0 | 1015.4 | 1017.3 | 1019.3 | 1019.1 | 1015.9 |  |
|           | S. D.     | 9.268        | 8.287  | 8.995  | 8.980  | 7.241  | 5.938  | 4.396  | 4.570  | 6.046  | 7.880  | 8.859  | 9.567  | 8.117  |  |
|           | TOTAL OBS | 5703         | 5180   | 5677   | 5280   | 5455   | 5275   | 5702   | 5702   | 5517   | 5690   | 5518   | 5704   | 66403  |  |